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# STACK ANNEX <br> Encyclopedía Britannica. 

## H Y D

Hphica $\underbrace{\text { Hydromel. }}$

Y'DROGRAPHICAL Charts or Maps, more ufually called fea-charts, are projections of fome part of the fea, or coaft, for the ufe of navigation. In thefe are laid down all the rhumbs or points of the compafs, the meridians, parallels, \&c. with the coarts, capes, illands, rocks, fhoals, fhallows, \&c. in their proper places and proportions.

HYDROGRAPHY, the art of meafuring and defcribing the fea, rivers, canals, lakes, \&c.-With regard to the fea, it gives an account of its tides, counter-tides, foundings, bays, gulfs, creeks, \&ic.; as alfo of the rocks, fhelves, fands, fhallows, promontories, harbours; the diftance and bearing of one port from another; with every thing that is remarkable, whether out at fer or on the coaft.

HYDROLE $i_{1}$, a genus of plants belonging to the pentandria clafs, and in the natural method ranking with thofe of which the order is doubtful. See Botany Inder.

HY'DR OMANCY, a method of divination by water, pracifed by the ancients. See Divination, No 7.

HYDROMEL, honey diluted in nearly an equal weight of water. $n$ this liquor has not fermented, it is called fimple hydromel; and when it has undergone the firituous fermentation, it is called the vinous hydromel or mead.

Honey, like all faccharine fubftances, vegetable or animal, is fufceptible of fermentation in general, and particularly of the firituous fermentation. To induce this fermentation, nothing is neceflary but to dilute it fulticiently in water, and to leave this liquor cxpofed to a convenient degree of heat. To make good vinous hydromel or mead, the whiteft, pureft, and beit tafted honey mult be chofen; and this mult be put into a kettle with more than its weight of water: a part of this liquor muft be evaporated by boiling, and the liquor fcummed, till its confiftence is fuch that a frefl egg thall be fupported upon its furface without finking more than half its thicknefs into the liquor; then the liquor is to be ftrained and poured through a funnel into a barrel : this barrel, which ought to be nearly full, muft be expofed to a heat as equable as is poffible, from 20 to 2.7 or 28 degrees of Mr Reaumur's thermometer, taking care that the bung-hole be nightly covered, but not clofed. The phenomena of the firirituous fermentation will appear in this liguor, and will fubfill during two or three Vol. XI. Part I.

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months, according to the degree of heat; after which they will diminiih and ceafe. During this fermentation, the barrel mult be filled up occafionally with more of the fame kind of liquor of honey, fome of which ought to be kept apart on purpofe to replace the liquor which flows out of the barrel in froth. When the fermentation ceafes, and the liquor has become very vinous, the barrel is then to be put in a cellar and well clofed. A year afterwards the mead will be fit to be put into bottles.

The vinous hydromel or mead is an agreeable kind of wine: neverthelefs it retains long a tafte of honey, which is unpleafing to fome perfons; but this tafte it is faid to lofe entirely by being kept a very long time.

The firituous fermentation of honey, as alfo that of fugar, and of the molt of vinous liquors, when it is very faccharine, is generally effected with more difficulty, requires more heat, and continues longer, than that of ordinary wines made from the juice of grapes; and thefe vinous liquors always preferve a faccharine tafte, which thows that a part only of them is become firituous.

HYDROMETER, an inftrument to meafure the gravity, denfity, \&c. of water and other fluids. For an account of different hydrometers, fee HydrodyNamics.

HYDROMPHALUS, in medicine and furgery, a tumor in the navel, arifing from a collection of water.

HYDROPHANES, or Oculus Murdi, a kind of precious flone, which becomes tranfparent in water, much efteemed by the ancients.

HYDROPHOBIA, an averfien or dread of water: a terrible fymptom of the rabies canina; and which has likerwife been found to take in violent inflammations of the flomach and in hyfteric fits. See Medicine Index.

HYDROPHYLACIA, a word ufed by Kircher and fome others who have written in the fame fyftem, to exprefs thofe great refervoirs of water which be places in the Alps and other mountains for the fupply of rivers which run through the feveral lower countries. This he makes to be one of the great ufes of mountains in the economy of the univerfe.

HYDROPHYILLAX, a genus of plants belonging to the tetrandria clafs. Sec Botany Index.

HYDROPHYLLUM, W:ATER-LEAF, a genus of

Hydro-
meter

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Ilydiops plants belonging to the pentandria clafs, and in the naII Hygrome- tural method ranking with thofe of which the order is nygrome- doubtful. See Botany Index.
ter.
$\underbrace{}_{\text {HYDROPS, in Medicine, the fame with Dropss. }}$ HYDROSCOPE, an infrument anciently ufed for meafuring time.

The hydrofcope was a kind of water-clock, confifting of a cylindrical tube, conical at bottom: the cylinder was graduated, or marked out with divifions, to which the top of the water becoming fucceflively contiguous, as it trickled out at the vertex of the cone, pointed out the hour.

HYDROSTATICS, is that branch of phyfics which treats of the weight, preflure, and equilibrium of huids. See Hydrodynamics.

HYDROTHORAX, a collection of water in the breaft. See Medicine Index.

HYDRUNTUM, in Ancient Geography, a noble and cornmodious port of Calabria, from which there was a fhorter paffage to Apollonia (Pliny). Famous for its antiquity, and for the fidelity and bravery of its inhabitants. Now Otranto, a city of Naples, at the entrance of the gulf of Venice. E. Long. 19. 15. N. lat. 40.12.

HYEMANTES, in the primitive church, offenders who had been guilty of fuch enormities, that they were not allowed to enter the porch of the churches with the other penitents, but were obliged to fand without, expofed to all the inclemency of the weather.

## HyGela, in Mythology. See Health.

HYGIEINE, 'rybum (formed of iyras," found, healthy"), that branch of medicine which confiders health, and difcovers proper means ane remedies, with their ufe, in the prefervation of that flate.
The objects of this branch of medicine are, the nonnaturals. See Diet, Exercise, \&c.
Hygienes, more largely taken, is divided into three parts; prophylactice, which forefees and prevents difeafes; fynteritice, employed in preferving health; and analeptice, whofe office is to cure difeales, and reftore health.
HYGROMETER, an inftrument for meafuring the degrees of drynefs or moilture of the atmofphere, in like manner as the barometer and thermometer meafure its different degrees of gravity or warmth.

Though every fubflance which fiwells in moif, and thrinks in dry weather, is capable of becoming an hygrometer; yet this kind of infrument is far from being as yet arrived at fuch a degree of perfection as the barometers and thermometers. There are three general principles on which hygrometers have been con-

Hygromereis of
three kinds trructed. 1. The lengthening and fhortening of frings by drynefs and moifture, or their twifting and untwifting by the fame. 2. The fivelling and hlurinking of Solid fubftances by moifture or drynefs; and 3. By the increafe or decreafe of the weight of particular bodies whofe nature is to abforb the humidity of the atmofphere.
Srceaton's.
I. On the firt of thefe principles Mr Smeaton con. fructed an hygrometer greatly fuperior to any that had appeared before; and of which the following account is given in the 62d volume of the Philofophical Tranfations.
"Having fome years ago attempted to make an ac-
curate and fenfible hygrometer by means of a hempen Hygromecord of a co-liderable length, I quickly found, that though it was more than fufficiently fufceptible of every change in the humidity of the atmofphere, yet the cord was upon the whole in a continual fate of lengthening. Though this change was the greatelt at firlt, yet it did not appear probable that any given time would bring it to a certainty; and furthermore, it feemed, that as the cord grew more determinate in mean length, the alteration by certain differences of moifture grew lefs. Now, as on confidering wood, catgut, paper, \&c. there did not appear to be a likelihood of finding any fubftance fufficiently feafible of differences of moifture that would be unalterable under the fame degrees thereof; this led me to confider of a confrection which would readily admit of an adjuftment ; fo that, though the cord whereby the intlrument is actuated may be variable in itfelf, both as to abfolute length, and difference of length under given degrees of moifture, yet that, on fuppofition of a material departure from its original fcale, it might be readily reffored thereto; and, in confequence, that any number of hygrometers, fimilarly conftructed, might, like thermometers, be capable of fpeaking the fame language.
"The two points of heat the more readily determirable in a thermometer, are the points of freezing and boiling water. In like manner, to conftruct hygrometers which thall be capable of agreement, it is neceflary to eftablih two different degrees of a moifture which fhall be as fixed in themfelves, and to which we can have recourfe as readily and as often as poffible.
"One point is given by making the fubfance perfectly wet, which feems fufficiently determinable; the other is that of perfect dry, which I do not apprehend to be attaimable with the fame precifion. A readinefs to imbibe wet, fo that the fubftance may be foon and fully faturated, and alfo a facility of parting with its moifture on being expofed to the fire to dry, at the fame time, that neither immerfion, nor a moderate expofition to the warmth of the fire, fhall injure its texture, are properties requifite to the firf mover of fuch an hygrometer, that in a manner exclude all fubftances that 1 am acquainted with, befides hempen and flaxen threads and cords, or fubtances compounded of them.
"Upon thefe ideas, in the year 1758 , I conftuated two hygrometers as nearly alike as poffible, in order that 1 might have the means of examining their agreement or difagreement on fimilar or difimilar treatment. The interval or fcale between dry and wet I divided into 100 equal parts, which I call the degrees of this hygrometer. The point of o denotes perfect dry; and the numbers increafe with the degrees of moifture to 100, which denotes perfect wct.
"On comparing them for fome time, when hung up together in a paflage or ftaircale, where they would be very little affected by fire, and where they would be expofed to as free an air as poffible in the infide of the houfe, I found that they were generally within one degree, and very rarely differed two degrees; but as thefe comparifons neceflarily took up fome time, and were frequently interrupted by long avocations from home, it was fome yèars before I could form a tolerable judgment of them. One thing I foon obferved, not altogethes

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Hygrome- altogether to my liking, which was, that the Raxen ter. $\xrightarrow{\square}$ cords made ufe of feemed to make fo much refiftance to the entry of fmall degrees of moifture (fuch as is commonly expcricaced within doors in the fituation above-mentioned), that all the changes were comprifed within the firt $30^{\circ}$ of the fcale; but yet, on expofing them to the warm fteam of a walh-houfe, the index quickly mounted to 100 . I was therefore defirous of impregnating the cords with fomething of a faline nature, which mould difpofe them more forcibly to attract moifture; in order that the index might, with the ordinary changes of the moifture in the atmof phere, travel over a greater part of the fale of 100 . How to do this in a regular and fixed quantity, was the fubject of many experiments and feveral years interrupted inquiry. At laft I trict the one hereafter defcribed, which ${ }^{2}$ feemed to anfwer my intention in a great meafure; and though upon the whole it docs not appear probable that ever this inftrument will be made capable of fuch an accurate agreement as the mercurial thermometers are, yet if we can reduce all the difagreements of an hygrometer within $\frac{1}{40}$ th part of the whule fcale, it will probably be of ule in Come philofophical inquiries, in lieu of inftruments which have not yet been reduced to any common fcale at all.
Plates ccixxvi. tion of the whole int trument feen in front in its trie cocaxvil proportion. DE is that of the profile, or inltrument feen edgewife. FG in both reprefents a flaxen cord about 35 inches long, fufpended by a turning peg $F$, and attached to a loop of brafs wire at A, which goes down into the box cover H , and defends the index, \&c. from injury; and by a glafs expofes the fale to riew.
" Fig. 3. ftows the inftrument to a larger fcale, the upright part being fhortened, and the box-cover removed; in which the fame letters reprefeat the fame parts as in the preceding figures; GI are two loops or long links of brafs wire, which lay hold of the index KL, moveable upan a fmall ifud or centre $K$. The cord FG is 1:ept moderately ftrained by a weight M of about half a pound avoirdupois.-It is obvious, that, as the cord lengthens and fiortens, the extreme end of the index rifes and falls, and fucceffively pafies over $\mathrm{N}_{2}$ the fcale difpofed in the arch of a circle, and containing 100 equal divifions. This fale is attached to the brafs fliding fulcr $O P$, which moves upon the directing piece RR, fixcd by ferews to the board, which makes the frame or bafe of the whole; and the fcale and ruler NQP is retained in any place neares to or further from the centre $k$, as may be required by the fcrew $S$.
"Fig. 4. seprefents in profile the fliding piece and flud I (fig. 3.), which traverfes upon that part of the index next the centre $K$; and which can, by the two forews of the ftud, be retained upon any part of the index that is made parallel; and which is done for three or four inches fron the centre, for that purpofe. The flud is filed to the edges, lific the fu!crum of a fcalc-beans; one being formed on the under fidc, the other on the upper, and as near as may be to one another. An hook formed at the lower end of the wire-loops CI, retains the index, by the lowermoft edge of the fud; while the weight $\$ 1$ hangs by a finall hook upon the upper cige : by the fe mezns the index
is kept feady and the cords ftrained by the weight, Hygromewith very little friction or burthen upon the central ter. ftud K .
"Fig. 5. is a parallelogram of plate-brals, to keep out duft, which is altached to the upper edge of the box-cover H ; and ferves to thut the part of the boxcover neceftarily cut away, to give leave for the wire GI to traverfe with the fliding ftud nearer to or futther from the centre of the index $\mathbb{K}$; and where, in fig. 5. $a$ is a hole of about an inch diameter, for the wire GI to pals through in the rifing and falling of the index freely without touching; $b$ is a flit of a leffer fize, futficient to pals the wire, and admit the cover to come off without dcranging the cord or index ; $c c$ are two fmall forews applied to two flits, by which the plate flides lengthwile, in order to adapt the hole $c$ to the wire GI, at any place of the flud I upon the iadex K L.
" 1 . In this conftruction, the index KL being 12 inches long, 4 inches from the extrome end are filed fo narrow in the direction in which it is feen by the eye, that any part of thefe four inches lying over the divifions of the fcale, becomes an index thereto. The fcale itfelf flides four inches, fo as to be brought under any part of the four inches of the index attenuated as abovementioned.
"2. The pofition of the directing piece $R R$ is fo determined as to be parallel to a right line drawn through o upon the fcale, and the centre $K$ of the index; confequently, as the attemated part of the index forms a part of a radius or right line from the fame centre, it follows, that whenever the index points to oupon the fcale, though the fcale is moved nearer to or further from the centre of the index, yet it produces no change in the place to which the index points.
"When the divided arch of the foale is at 10 inches from the centre (that is, at its mean diltance); then the centre of the arch and the centre of the index are coincident. At other difances, the extremes of which are eight or twelve inches, the centre of the divifions, and the centre of the indes pointing thereto, not be ing coincident, the index cannot move over the faces geometrically proportionable to one another in all iituations of the fcale; yet the whole fale not exceeding $30^{\circ}$ of a circle, it will be found on computation, that the error can never be fo great as $\frac{3}{8}$ th part of the fcale, or 1 of the hygrometer; which in this inftru. ment being confidered as indiviible, the mochanical error will not be fenfible.
"The cord here made ufe of is flax, and between $\frac{{ }^{\frac{1}{2}}}{} t^{\prime}$ th and $\frac{1}{30}$ th of an inch in diameter; which can be readily afcertained by meafuring a number of tums made round a pencil or fmall fick. It is a fort of cord ufed in London for raking nets, and is of that particular kind called by net-makers flaxer three-tireads laid. A competent quantity of this cord was boiled in one pound aroirdupois of water, in which was put two pennyweights troy of common falt; the whole was reduced by boiling to fix ounces avoirdupois, which was do:1e in about half an hour. As this affertains a given frength of the brine, on taking out the cord, it may be fuppofed that crery fibre of the cord is equally impregnated with falt. 'The cord being dried, it will be proper to fretch it; which may be done fo as to prevent it frem untwifting, by tying
three

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Hygrome- three or four yards to two nails againft a wall, in an $\underbrace{\text { Ier. }}$ horizontal pofition, and hanging a weight of a pour:d or two to the middle, fo as to make it form an obtufe angle. This done for a week or more in a room, will lay the fibres of the cord clofe together, and prevent its fretching fo faft after being applied to the inftrument as it would otherwife be apt to do.
" The hygrometer is to be adjufted in the following manner. The box-cover being taken off to prevent its being fpoiled by the fire, and choofing a day naturally dry, fet the inftrument nearly upright, about a yard from a moderate fire ; fo that the cord may become dry, and the inftrument warm, but not fo near as would fpoil the finelt linen by too much heat, and yet fully evaporate the moifture ; there let the infrument flay till the index is got as low as it will go; now and then flroaking the cord betwixt the thumb and finger downwards, in order to lay the fibres thereof clofe together; and thereby caufing it to lengthen as much as polfible. When the index is thus become ftationary, which will generally happen in about an hour, more or lefs as the air is naturally more or lefs dry, by means of the peg at top, raife or deprefs the index, till it lies over the point 0 . This done, remove the inftrument from the fire; and having ready fome warm water in a tea-cup, take a middling camel's hair pencil, and dipping it in the water, gently anoint the cord till it will drink up no more, and till the index becomes ftationary and water will have no more effect upon it, which will alfo generally happen in about an hour. If in this fate the index lies over the degree marked 100 , all is right: if not, flack the forew S, and flide the fcale nearer to or further from the centre, cilt the point 100 comes under the index, and then the inftrument is adjufted for ufe : but if the compafs of the flide is not fufficient to effect this, as may probably happen on the firf adjuftment, llack the proper fcrews, and move the fliding flud I nearer to or further from the centre of the irdex, according as the angle formed by the index between the two points of dry or wet happens to be too frall or too large for the fcale."
Coventrs': On this principle, a fimple hygrometer has been made by Mr Coventry of Southwark, London. It is not upon the moft accurate conftruction, yet will act very fenfibly in the common changes of the air. Fig. 6. reprefents the hygrometer as applied to a wall or board. A is a flring of whip-cord, catgut, \&ic. of any length at pleafure : it is fufpended on a bracket $B$, and kept extended by a weight at the bottom $\mathrm{C} . \mathrm{DD}$ is a nip of wood, which with the bracket is fixed perpendicularly to a wall or fide of a room. It has a ftraight line $E$ drawn down in the middle of the board, ferving to point out the divifions upon the edges of the two thin circular cards F and G. At the centre of the bottom of each of thefe cards is glued a piece of cork, through which the fring A is drawn: Thefe cork pieces-ferve to preferve the horizontal pofition of the cards. The upper card F is divided into 10 equal parts or divifions, and the under card $G$ into 100 equal parts; the flring A being meafured into 10 equal parts, from the point of fufpenfion $H$ to the furface of the lower card J. The card $\mathbf{F}$ is hung at the firft part, from $H$, and the card $G$ at the 10 th part from the fame point: confequently, from the twifting and
untwifting of the ftring A by the different changes of Hygronethe air, the lower card $G$, from the mechanical principles of motion, will defcribe 10 revolutions for one of the upper card $F$; or when the lower card $G$ has made one revolution, the upper card $F$ will lave defcribed but the loth part, or one of its divifions. From whence it appears, that by the affiftance of the upper card $F$, an index is thereby obtained of the number of revolutions the lower card G performs, which are reckoned by the line E on the dlip of wood.

Example. It mult firlt be obferved what divifion of the card $F$ the line $E$ is againt, fuppole 3; and alfo what divifion of the lower card $G$ is cut by the fame line, fuppofe 10: it then appears, that the ftate of the hygrometer is thus, 3 degrees and 10 hundredths of another. If the whole so-divifions of the card have paffed the line $E$, the lower card G will have revolved 10 times, or 10 hundred parts, equal to 1000 ; the accuracy to which the principle of this fimple contrivance anfwers. Before ule, the hygrometer thould be adjufted; to do which, the cards F and $G$ are firt fet to the line $E$ at the $O$ of each, or commencement of the graduations: whatever direction the cards afterwards take, it mult evidently be from the change to greater moifture or drynefs in the air ; and they will accordingly point it out.

On this principle, but with a degree of ingenuity Sauflure's and pains perhaps never before employed, an hygrome. ter has been conltructed by MI. de Sauflure, profeffor of philofophy at Geneva. In his Effais fur l' Hysrometrie, in 4 to, 1783 , is an important detail on the fubject of hygrometry; from which the following defcription of his hygrometer is taken. The author found by repeated experiments, that the difference between the greatelt extenfion and contraction of a hair, properly prepared, and having a weight of about three grains fulpended to it, is nearly $\frac{7}{40}$ of its whole length ; that is, $3 \frac{7}{2}$, or $3 \frac{2}{3}$ lines in a foot. This circumftance luggefed the idea of a new hygrometer : and, in order to render thofe fmall variations perceptible and ufeful, the following apparatus was conftructed.

Fig. 7. is a reprefentation of the whole influment, with the hair and other appendages complete. The lower extremity of the hair $a b$ is held by the chaps of the forew pincers $b$. Thefe pincers are reprefented afide at $B$ : by a fcrew at ins end, it faftens into the nut of the bottom plate C. This nut of the plate turns independently of the piece that fupports it, and ferves to raife or deprefs the pincers $B$ at pleafure.

The upper extremity $a$ of the hair is held by the under chaps of the double pincers $a$, reprefented afide at A. Thefe pincers fatten the hair below, and above faften a very fine narrow flip of filver, carefully annealed, which rolls round the arbor or cylinder $d$, a feparate figure of which is thonn at DF. This arbor, which carries the needle or index $e e$, or $E$ in the feparate figure, is cut into the flape of a fcrew; and the intervals of the threads of this fcrew have their bafes Hlat, and are cut fquarely fo as to receive the nlip of filver that is faftened to the pincers $a$, and joined in this manner with the hair. M1. Satlure oblerves, that hair alone fixed immediately to the arbor wouid not do; for it curled upon it, and acquired a ftiffnefs that the counterpoife was not able to furmount. The arbor was cut in a ferew form, in order that the dip of filver in wind.

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Hygrome-img upon it fhould not increafe the diameter of the ter. arbor, and never take a fituation too oblique and vari-
able. The flip is fixed to the arbor by a fmall pin F. The other extremity of the arbor D ) is thaped like a pulky, Hat at the bottom fo as to receive a fine fupple filken Atring, to which is fufpended the counterpoife $g$ in the large figure, and $G$ in the fide one. This counterpoife is applied to diftend the hair ; and acts in a contrary direction to that of the hair, and the moveable pincers to which the hair is fised. If then the hair thould be loaded with the weight of four grains, the counterpoife nult weigh four grains more than the pincers. The arbor at one end pafles through the centre of the dial, and turns therein, in a very fine hole, on a pivot made very cylindrical and well polihed: at the other end is alfo a fimilar pivot, which turns in a hole made in the end of the arm $h$ of the cock $h i$, HI. This cock is fixed behind the dial by means of the forew I.

The dial efe $k$, divided into 360 degrees, is fupported by two arms $/ \%$; thefe are foldered to two tubes, which inclofe the cylindrical columns $m \mathrm{mmm}$. The fetting fcrews $n n$ move upon thefe tubes, and ferve thereby to fix the dial and arbor to any height required. The tivo columiss which fupport the dial are firmly faltened to the cafe of the hygrometer, which reft upon the four fcrews 0000 ; by the alfiltance of thefe fcrews, the inftrument is adjuited, and placed in a vertical fituation.
The fquare column $p p$, which refts upon the bafe of the hygrometer, carries a box $q$, to which is fixed a kind of port-crayon $r$, the aperture of which is equal to the diameter of the counterpoife $g$. When the hygrometer is to be moved from one place to another ; to prevent a derangement of the inftruments from the ofcillations of the counterpoife, the boi $q$ and the portcrayon $r$ muft be railed up fo as the counterpoife may fall into and be fixed in it, by tightening the fcrew s and the box and counterpoife together by the fcrew $t$. When the hygrometer is intended for ule, the counterpoife muft be difengaged by lowering the box, as may be conceived from the figure.

Lally, at the top of the inftrument is a curved piece of metal $x, y, z$, which is faftened to the three columns jult defcrived, and keeps them together. It has a fquare hole at $y$, which ferves to hang up the hygrometer by when required.

The variations of which this hygrometer is capable, are (all things befides equal) as much greater as the arbor round which the tlip of filver winds is than a fraller diameter, and as the inftrument is capable of receiving a longer hair. M. Saufure has had hygrometers made with hairs 14 inches long, but he finds one foot fufficient. The arbor is three-fourths of a lime in diameter at the bale between the threads of the fcresv or the part on which the llip winds. The variations, when a hair properly prepared is applied to it, are more than an entire circumference, the index defcribing about 400 degrees in moving from extreme drynefs to extreme humidity. M. Sauflure mentions an inconvenience attending this hygrometer, viz. its not returning to the fame point when moved from one place to another; becaufe the weight of three grains that keeps the filver flip extended, cannot play fo exactly as to act always with the fame precifion againf the

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arbor round which it winds. But this weight cannot Hygromebe fenfibly increafed without fill greater inconveniences: he therefore obferves, that his hygrometer is well calculated for a fixed lituation in an obfervatory, and for various hygrometrical experiments; fince, inftead of the hair, there may be fubflituted any other fubifance of which a trial may be wanted ; and it may be kept extended by a counterpoife more or lefs heavy as they may require: but the inflrument will not adnait of being moved, nor ferve even for experiments which may fubject it to agitation.

To obviate the objection above-mentioned, M. Sauf- Portable fure has contrived another apparatus more portable hyg:omeand convenient, and which, if not fo extenfive in its va- ${ }_{\text {S }}^{\text {ter by }}$ buliure. riations, is in fact very firm, and not in the leaft liable to be deranged by carriage and agitation. Fig. 8. is areprefentation of this hygrometer, which he cails the portable hygrometer, in diltinction from the preceding, which he calls the great hygromater or the hygrometer with the arbor. The material part of this intrument is its index abce; an horizoutal view of which, and the arm that carries it, is feen in the Ceparate Ggure GBDEF. This index carries in its centre $D$ a thin tube hollow throughout, and projects out on each fide of the needle. The axis which palifes through it, and round which the index turns, is made thin in the middle of its length and thick at the ends; fo that the cylindrical tube which it palies through touches it only at two points, and atts upon it only at its extremities.

The part de DE of the index ferves to point out and mark on the dial the degrees of moifture and drynefs; the oppolite part db DB ferves to fix both the hair and counterpoife. This part, which terminates in a portion of a circle, and is about a line in thicknefs, is cut on its edge in a double vertical groove, which makes this part fimilar to the fegment of a pulley with a donble neck. Thefe two grooves, which are portions of a circle of two lines radius, and have the fame centre with that of the index $d$, ferve in one of them to contain the hair, and in the other the filk, to the end of which the counterpoife is fulpended. The fame index carries vertically above and below its centre two fmall fcrew-pincers, fituated oppolite to the two gooves: that above at $a$, oppofite to the hindmolt groove, ferves to fix to the filk to which the counterpoife is fufpended; and that below at $b$, oppolite to the hithermolt groove, ferves to hold one of the ends of the hair. Each of thefe grooves has its partitions cut, as feen in the fection B , and its bottom made flat, in order that the hair and filk may have the greatelt freedom polifle. The axis of the needle DD goes through the arm $g f \mathrm{GF}$; and it is fixed to this arm by the tightening fcrew $f$ F. All the parts of the index flould be in perfect cquilibrium. about its centre; fo that when it is on its pivot without the couoterpoife, it will relt indifferently in any pofition. it may be placed in.

It mull be underfood, that when the hair is fixed by one of its extremities in the pincers $e$, and by the other end on the pincers $y$ at the top of the inilrument, it paffes in one of the necks of the double pulley $b$, whilf the counterpoife to which the filk is fixed in a paffes in the other neck of the fame pulley: the counterpoife ferves to keep the hair extended, and acts always in the fame direction and with the fame force, whateyes.
: Ayptrme- whatever the fituation of the index may be. When ier. therefore the drynefs contracts the hair, it overpowers the gravity of the counterpoife, and the index defcenos: when, on the contrary, the humidity relaxes the hair, it gives way to the counterpoife, and the index afcends. The counterpoife thould weigh but three grairs; fo that the index fiould be made very light and very caly in its motion, in order that the leaft ponible force may move it and bring it back again to its point when drawn afide.

The dial $k e h$ is a circular arch, the centre of which is the fame with that of the index. This arch is diviled into degrees of the fame circle, or into the hundredths of the interval which is found between the limits of extreme drynefs and extreme humidity. The interior edge of the dial carrics at the diltance hi a kind of projecting bride or thay $i i$, made of brafs wire, curved to the arch, and fixed in the points $i$ i. This bridle retains and guards the indes, at the fame time leaving it to play with the requifite frcedom. The forew-pincers $y$, in which is fattened the upper extremity of the hair, is carried by a movcable arm, which afcends and defcends at pleafure the length of the frame KK. This frame is cylindrical everywherc elfe, except its being here flattened at the hinder part io about half its thicknefs, in order that the fiece with the ferew which carries the arm fhould not project cut underneath, and that the arm may not turn. The arm may be fopped at any defired height by means of the preding ferew $x$. But as it is of ufe fometimes to be able to give the inftrument a very fmall and accurate motion, fo as to bring the index exaclly to the part that may be wanted, the ffide piece $/$, which carries the pincers $y$, to which the hair is fixed, is to be moved by the adjutting fcrew $m$.

At the bafe of the inftrument is a great lever nop $q$, which ferves to fix the index and its counterpoife when the hygrometer is to be moved. The lever turns an axis $n$, terminated by a frew which goes into the frame; in tightening this ferew, the lever is fixed in the defired pufition. When the motion of the index is to be ftopped, the intended pofition is given to this lever, as reprefented in the dotted lincs of the figure. The long neck $p$ of the lever lays hold of the double pulley $b$ of the index, and the fhort neck o of the counterpoife : the tightening forew $q$ faftens the two necks at once. In confining the index, it mult be fo placed, that the hair be very flack; fo that, if whill it is moved the hair thould get dry, it may have soom to contract itfelf. Afterwards, when the inftrument is placed for ufe, the firt thing to be done is to relax the fcrew $n$, and turn back the double lever with great care, taking equal caution at the fanve time not to ftrain the hair. It is better to apply one hand to the index near its centre, whilit the other hand is dilenga. ging the pulley and the counterpoife from the lever that holds them fteady. The hook $r$ ferves to fufpend a thermometer upon; it thould be a mercurial one, with a very fmall naked bulb or ball, fo as to fhow in the moff fenfible mamer the changes of the air: it ftoould be mounted it metal, and guarded in fuch a manner as not to vibrate fo as to break the hair. Laftly a notch is made under the top of the frame $s$, to mark the point of fufpenfion, about which the inftrument is in cquilibrium, and keeps a vertical fituation.

All the inftrument floould be made of brafs : though Hygrome* the axis of the index and its tube work more pleafantly together if made of bell-metal.

The extent of this hygrometer's variations is not mure than the fourth or filth part of the hygrometer with the arbor. It may be augmented by maling the fegment of the pulley to which the hair is fixed of a fmalier diameter; but then the hair, in moving about it, would fret and contract a fliffnef, which would caufe it to adhere to the bottom of the neck. M. Sauflure is of opinion, that the radius of this pulley thould not be lefs than two lines, at leaft that there fhould be adapted a plate of filver or fome other contrivance; but then the hygrometer would be too difficult to conffruct, and it would require too much attention and care on the part of thofe who ufe it : his object was, to make an inftrument generally ufeful, and eafy and convenient in its ufe. The hygrometcr with the arbor may be ufed for obectations which require an extreme fenfibility.

The variations of this inffument may be augmented by making it higher, becaufe in that cafe longer hairs might be adapted : but it would be then lefs portable. Befides, if the hair is too long when obfervations are made in the open air, the wind has too great an cffect upon it, and thus communicates to the index inconvenient vibrations. It is not proper therefore to make it more than a foot in height. When it is of this dimenfion, an hair properly prepared can be applied to it, and its variations from extreme drynefs to extreme humidity are 80 or evell 100 degrees; which on a circle of 3 inches radius forms an extent fufficient for obfervations of this kind. M. Sauflure has even made fmaller inftruments that may be carried conveniently in the pocket, and to make experiments with under fmall receivers: they were but feven inches high by two inches of breadth; which, notwithflanding their variations, were very fenfible.

Thus much for the conftruction of the various parts of the inftrument. The limits of this work will not admit of our inferting the whole of M. Sauffure's fubfequent account of the preparation of the hair, the manner of deternining the limits of extreme humidity and of extreme drynels, the pyrometrical variations of the hair, and the graduation of the hygrometer. The fol. lowing abftract muit therefore fuffice.

In the preparation of the hair, it was found necefiary to free it of a certain unctuofity it always has in its natural fate, which in a great meafure deprives it of its hygrometrical fenfibility. A number of hairs are boiled in a ley of vegctable alkali; and among thefe are to be chofen for ufe fuch as are moft tranfparent, bright, and foft: particular precautions are necelfary for preventing the flraining of the hair, which renders it unft for the intended purpofe.

The two fixed points of the hygrometer are the extremes hoth of moillure and drynefs. The former is obtained by expoling the inffrument to air completely faturated with water; and this is effected by placing it in a glafs receiver tlanding in water, the fides of which are kept continually mointened. The point on the dial, at which the hand after a certain interval remains ffationary, is marked 100 . The point of extreme drynefs, not abfolute drynefs, for that does not

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Hygrome- exit, but the greateft degree of it that can be obtain-
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ces ier. ed, is produced by introducing repeatedly into the fame receiver containing the inftrument, and fanding now upon quickfilver, certain quantities of deliquefcent alkaline falts, which abforb the moitture of the air. The l:igheft point to which the hand can be brought by this operation, not only when it will rile no higher, but when it becomes retrograde from the dilatation occafioned by heat, is called $\rho$; and the arch between thefe tro points is divided into 100 equal parts, being degrees of the hygrometer. The arch $p \beta$, upon which the fale is marked in the inftrument (reprefented in fig. 2.) being part of a circle of three inches diameter ; hence every degree meafures about one third of a line. In the flationary hygrometer, fig. 1. the fcale upon the complete circular dial is fo much larger, that every degree meafures about five lines; but this M. Sauffure confiders as far from being a perfection, that it is rather an inconvenience; fince the infrument becomes thereby fo very fufceptible of the leaft impreflion, that there is cven no approaching it without a fenfble variation. The thermometer, adapted as before inentioned, ferves to correct the changes of temperature : towards the estreme of drynefs, $\mathrm{I}^{\circ}$ of the thermometer produces on the hair an effeet of half a degree of the hygrometer, but towards the extreme of moifture, the fame differnce of temperature carfes an effect no lefs than $3^{2}$ on the hygrometer. He conftruated two tables, that gave the intermediate bygrometrical variations for fingle degrees of the thermometer at different parts of the fcale.

The whole range of the atmofpherical variations takes in about $75^{\circ}$ of this fcale; a drynefs of more tban $25^{\circ}$ being always the effect of art. The fenfibility of this inftrument is fo very great, that being expofed to the dew, he mentions that it varies above $40^{\circ}$ in about 20 mirutes of time. Being removed from a very moift into a very dry air, it varied in one inftance no lefs than $35^{\circ}$ in three minutes. He fays that its variations were always found uniform in diffetent inftruments fufpended in different parts of the 1ame atmofphere. This hygrometer is confidered by the wathor as polfefled of all the properties requifite in fuch an initrument. Thefe are, 1. That the degrees in the feale be furficiently large, and to point out even the leaft variation in the drynefs or moifture of the atmofphere. 2. That it be quick in its indications. 3. That it be at all times confiftent with itfelf; viz. that in the fame flate of the hair it always points to the fame degree. 4. That feveral of them agree with one another. 5. That it be affected only by the aqueous vapours. 6. That its variations be ever proportionate to the changes in the air.

But after a!l it mufl be obferved, that a confiderable degree of trouble and delicacy is requifite in the preparation of the hair, and it is very fragile ; circumftances which may prevent it from coming into general ufe among common obfervers, although probably it may be the beft in principle of any yet made.

Inftead of hairs or cat-gut, of which hygrometers of the firt kind are commonly made, Caffebois, a BenediEtine monk-at Meniz, propofed to make fuch hygrometers of the gut of a filk-worm. When that infeet is reacy to fpin, the:e are found in it two vefiels proceeding from the bead to the fomach, to which
they adhere, and then bend towards the back, where Hygromethey form a great many folds. The part of thefe. veffels next the ftomach is of a cylindric form, and about a line in diameter. Thefe veffels contain a gummy fort oi matter from which the worm fpins its filk; and, though they are exceedingly tender, mcans have been devifed to extract them from the infect, and to prepare them for the above purpofe. When the worm is about to fpin, it is thrown into vinegar, and fuffered to remain there twenty-four hours; during which time the vinegar is abforbed into the body of the infeet, and coagulates its juices. The worm being then opened, both the veffels, which have now acquired ftrength, are extrafted; and, on account of their pliability, are capable of confiderable extenfion. That they may not, however, become too weak, they are flretched only to the length of about fifteen or twenty inches. It is obvious that they mult be kept fufficiently extended till they are completely dry. Before they attain to that ftate, they muft be freed, by means of the nail of the finger, from a nimy fubftarice which adheres to them. Such a thread will fuftain a weight of fis pounds without breaking, and may be ufed for ais hygrometer in the fame manner as cat-gut; but we confefs that we do not clearly perceive its fuperiority.

1I. On the fecond general principle, namely, that De Luc'so of the fwelling of folid bodies by moillure, and their contraction by drynefs, M. de Luc's infrument is the belt. He makes choice of ivory for the conitruction of his hygrometer, becaufe he finds that, being once wetted, ivory regularly fivells by moifure, and returns exactly to the fame dimenfions when the moilture is evaporated, which other bodies do not. This hygrometer is reprefented in fig. 9. where $a, a b$ is an ivory tube open at the end $a a$, and clofe at $b$. It is made of a piecte of ivory taken at the diftance of fome inches from the top of a pretty large elephant's tooth, and likewife at the fame diftance from its furface and from the canal which reaches to that point. (This particular direction is given, that the texture of the ivory in all different hygrometers may be the farae, which is of great importance.) This piece is to be bored exaetly in the direction of its fibres; the hole mult be very Itraight, its dimenfions $2 \frac{1}{2}$ lines in diameter, and 2 inches 8 lines in depth from $a$ a to $c$. Its bore is then to be exactly filled with a brafs cylinder, which, however, mult project fomewhat beyond the ivory tube; and thus it is to be turned on a proper machine, till the thicknefs of the ivory is exatily ${ }^{3}$ 3 0 of a line, except at the two extremitics. At the bottom $b$ the tube ends in a point; and at the top $a \Delta$ it muft for about two lines be left a little thicker, to enable it to bear the preflure of another piece put upon it. Thus the thin or hygrometrical part of the tube will be reduced to $2 \frac{1}{2}$ Frencb inches, including tlee concavity of the bottom. Before this piece is ufed, it mull be put into water, fo that the external part alone may be wetted by it ; and here it is to remain till the water penetrates to the infide, and appears in the form of dew, which will happern in a few hours. The reafon of this is, that the iwory tube remains fomerrhat larger ever after it is wetted the firt time.

For this hygrometer, a glafs tube muft be provided about 144 inches long, the lower cud of which is ftoorn in dde $e$. Its internal diameter is about $\frac{x}{4}$ of a line.

Hygrome- If now the ivory tube is exaclly filled with mercury, ter. and the glafs one affixed to it, as the capacity of the former decreafes by being dried, the mercury will be forced up into the glafs one.

The piece $f f g \mathrm{~g}$ is intended to join the ivory with the glafs tube. It is of brafs, flaped as in the figure. A cylindrical hole is bored through it, which holds the glafs tube as tight as poffible without danger of breaking it; and its lower part is to enter with fome degree of difficulty into the ivory pipe. To hinder that part of the tube which inclofes the brafs piece from being affected by the variations of the moilfure, it is covered with a brafs verrel reprefented in $h / 2 i$. The pieces muft be united together with gum-lac or maftich.

The introduction of the mercury is the nest operation. For this purpofe, a dlip of paper three inches wide is firf to be rolled over the glafs tube, and tied faft to the extremity neareft the ivory pipe. A horfehair is then to be introduced into the tube, long enough to enter the ivory pipe by an inch, and to reach three or four inches beyond the extremity of the glafs one. The paper which has been flaped round the tube muft now be raifed, and ufed as a funnel to pour the mercury into the inflrument, which is held upright. The pureft quickfilver is to be ufed for this purpofe, and it will therefore be proper to ufe that revived from cinnabar. It eafily runs into the tube; and the air efcapes by means of the horfe-hair, affifted with fome gentle Shakes. Frefli mercury muit from time to time be fupplied, to prevent the mercurial tube from being totally emptied; in which cafe, the mercurial pellicle which always forms by the contact of the air, would run in along with it.

Some air-bubbles generally remain in the tube; they may be feen through the ivory pipe, which is thin enough to have fome tranfparency. Thefe being collected together by fhaking, mult be brought to the top of the tube, and expelled by means of the horfehair. To facilitate this operation, fome part of the mercury muft be taken out of the tube, in order that the air may be lefs obffructed in getting out, and the horfe-bair have a free motion to affin it. Air, however, cannot be entirely driven out in this manner. It is the weight of the mercury with which the tube is for that reafon to be filled, which in time completes its expulfion, by making it pals through the pores of the ivory. To haften this, the hygrometers are put into a proper box. This is fixed nearly in a vertical direction to the faddle of a horfe, which is fet a trotting for a few hours. The flakes fometimes divide the column of mercury in the glafs tube, but it is eafily re-united with the horfe-hair. When upon thaking the hygrometer vertically, no fmall tremulous motion is any longer perceived in the upper part of the column, one may be fure that all the air is gone out.

The fcale of this hygrometer may be adjufted, as foon as the air is gone out, in the following manner. The inftrument is to be fufpended in a veffel of water cooled with ice, frefh quantities of which are to be added as the former melts. Here it is to remain till it has funk as low as it will ink by the enlargement of the capacity of the ivory tube, owing to the moifture it has imbibed. This ufually lappens in feven or eight hours, and is to be carefully noted. In two or three
hours the mercury begins to afcend, becaule the moi- Hygromeflure paffes into the cavity, and forces it up. The lowefl ftation of the mercury is then to be marked 0 ; and for the more accurate marking the degrees on the fcale, M. de Luc always chofe to have his hygrometrical tube made of one which had formerly belonged to a thermometer. The reafon of this is, that in the thermometer the expanfion of the mercury by heat had $a$ been already determined. The diftance between the thermometrical points of melting ice and boiling water at 27 French inches of the barometer was found to be 1937 parts. The bulb of this preparatory thermometer was' broke in a bafon, in order to receive carefully all the mercury that it contained. This being weighed in nice fales amounted to 1428 grains. The liggrometer contained 460 grains of the fame mercury. Now it is plain, that the extent of the degrees on the hygrometer, ought to be to that of the degrees on the preparatory thcrmometer as the different weights of the mercury contained in each; confequently $1428: 465$ : 1937: 624 nearly; and therefure the correfponding intervals ought to follow the fame proportion: and thus the length of a fcale was obtained, which might be divided into as many parts as he pleafed.

Fig. 10. is a reprefentation of De Luc's hygrometer when fully confructed. In elegance it far exceeds Smeaton's or any other, and probably alfo in accuracy; for by means of a fmall thermometer fixed on the board along with it, the expanfion of the mercury by heat may be known with great accuracy, and of confequence how much of the height of the mercury in the hygrometer is owing te that caufe, and how much to the mere moifure of the atmofphere.
M. de Luc having continued his inquiries further into the modifications of the atmof phere, mentions in his Idée fur la Météorologie another hygrometer, which he finds to be the beft adapted to the meofure of local humidity. Of all the hygrofcopic fubfances which he tried for this purpofe, that which anfwers the beft is a nip of whalebone cut tranfverfely to the direction of the fibres, and made extremely thin ; for on this depends its fenfibility. A flip of 12 inches in length and a line in breadth, he has made fo thin as to weigh only half a grain; and it may be made fill thinner, but is then of too great fenfibility, being affected even by the approach of the obferver. This nip is kept extended by a fmall fpring, and the variations in its length are meafured by a vernier divifion, or by, which is perhaps better, an index on a dial plate: the whole variation from extreme drynefs to extreme moifture is about $\frac{7}{8}$ of its length.

In thefe hygrometers, which are made by the influt ment-makers in London, the lip of whalebone is mounted in a frame very fimilar to that belonging to M. Sauflure's hygrometer before defcribed (fee fig. 7.) The only material difference is, that a imall concentric wire fpring is ufed, inftead of a counterpoife, to keep the fip of whalebone extended. M. Saullure had tried fuch a fpring applied to his hairs; but the weakeft fpring he found too flrong for the hair ; and he was further apprehenlive, that the variations which the cold, heat, and the weather infallibly make, would fuffer from the force of the fprings.
M. de Luc, in the hygroneters he formerly made, as before defcribed (made of ivory), had graduated them

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which has been found to render it erroneous), namely, that all faline fubftances are deftroyed by long conti. nued expofure to the air in very fmall quantities, and therefore can only imbibe the moifture for a certain time. Sulphuric acid has therefore been recommended in preference to the alkaline or neutral falts, and, indeed, for fuch as do not choofe to be at the trouble of conltructing a hygrometer on the principles of M. Smeaton or De Luc, this will probably be found the moft eafy and accurate. lig. 11. reprefents an hygrometer of this kind. A is a finall glafs cup containing a fmall quantity of oil of vitriol, B an index counterpoifing it, and $C$ the fcale; where it is plain, that as the oil of vitriol attracts the moilture of the air, the fcale will defcend, which will raife the index, and vice serfa. This liquor is exceedingly fenfible of the increafe or decreate of moifture. A fingle grain, after its full increafe, has varied its equilibrium fo fenfibly that the tongue of a balance, only an inch and a half long, has delcribed an arch, one-third of an inch in compafs (which arch would have been almolt three inches if the tongue had been one foot), even with fo fmall a quantity of liquor ; confequently, if more liquor, expanded under a large furface, were ufed, a pair of icales might afford as nice an hygrometer as any kind yet invented. A great inconveniease, however, is, that as the air mull have full accefs to the liquid, it is impoffible to keep out the duit, which, by continually adding its weight, mult render the hygrumeter falfe ; add to this, that even oil of vitriol itfelf is by time deftroyed, and changes its nature, if a fmall quantity of it is continually expofed to the air.

The beft hygrometer upon this principle, and fur afcertaining the quantity as well as the degree of moilture in the variation of the hygrometer, is of the contrivance of Mr Coventry, Southwark, London. The account he has favoured us with is as follows. "Take two theets of fine tiffue paper, fuch as is ufed by latters; dry them carefully at about two feet diftance from a tolerably good fire, till after repeatedly weighing them in a good pair of fcales no moifture remains. When the fheets arc in this perfectly dry ftate, reduce them to exactly 50 grains; the hygrometer is then fit for ufe. The theets mult be kept free from duft, and expofed a few minutes in the open air ; after which it may be always known by weighing them the exact quantity of moifture they have imbibed.
"For many years the hygrometer has (fays Mr Coventry) engroffed a confiderable thare of my attention : and every advantage propofed by others, either as it refpected the fubftances of which the inftrument was compofed, or the manner in which its operations were to be difcerned, has been impartially examined. But (adds he) I have never feen an hygrometer fo fimple in ivfelf, or that would act with fuch certainty or fo equally alike, as the one I have now defcribed. The materials of which it is compoled being thin, are eafily deprived wholly of their moifture; which is a circumftance effentially neceffary in fixing a datum from which to reckon, and which, I think, cannot be faid of any fubltance hitherto employed in the conAruction of hygrometers; with equal facility they imbibe or impart the humidity of the atmofphere, and Show with the greatelt exactnefs when the lealt altcration takes place."

Hygrometer. $\underbrace{-}$

Hygrome. from one fixed point only, that of extreme moiflure, ter. which is obtained by foaking them in water. He has now very ingenioully contrived to fix the other extreme, that of dryne $\int_{s}$ : but this being producible only by means of flrong fires, fuch as hygrometers camot fupport, he ufes an intermediate body, quicklime; which after having been deprived, by force of fire, of all its own humidity, has the property of flowly imbibing humidity again from the bodies in its neighbourhood; and whofe capacity is fuch that all the vapour that can be contained in a quantity of air equal to its own bulk, can give it no fenfible humidity. Thefe hygrometers, inclofed with a large quantity of frelh burnt lime in lumps, acquire in three weeks the fame degree of drynefs with the lime, which cannot differ fenfibly from extreme dryne/s.
M. de Sauflure makes choice of hairs, prepared by maceration in alkaline lye. M. de Luc fhows that hairs, and all other animal or vegetable fubftancer, taken dengthwife, or in the direction of their fibres, undergo controry changes from different variations of humidity; that, when immerfed in water, they lengthen at firf, and afterwards horten; that when they are near the greateft cegree of humidity, if the moitture is increafed, they fhorten themfelves; if it is diminilhed, they lengthen themfelses firt before they contract again. Thefe irregularities, which obriaunly render them incapable of being true meafures of humidity, he thows to be the neceffary confequence of their organic reticular itructure.
M. de Sauflure takes his point of extreme moifture from the vapours of water under a glafs bell, keeping the fides of the bell continually moiltened: and af. firms, that the humidity is there conftantly the fame in all temperatures: the vapours even of boiling water having no more effect than thofe of cold. M. de Luc thows, on the contrary, that the differences of humidity under the bell are very great, though M. Sauffure's hygrometer was incapable of difcovering them; and that the real undecompofed rapour of boiling water has the directly oppofite effect to that of cold, the effect of extreme drynefs : and on this point he mentions an interefting fact, communicated to him by Mr Watt, viz. that wood cannot be employed in the fteam engine for any of thofe parts where the vapour of the boiling water is confined, becaufe it dries fo as to crack, jult as if expofed to the fire. In M. de Luc's work above mentioned there are ftriking inftances selated, in which the imperfection of M. Sauflure"s hygrometer led him into falfe conclufions refpecting phenomena, and into erroneous theories to account for them.
III. On the third principle, namely, the alteration of the weight of certain fubitances by their attracting the moifture of the air, few attempts have been made, nor do they feem to have been attended with much fuccefs. Sponges dipped in a folution of alkalne falts, and fume kinds of paper, have been tried. Thefe are fuf. pended 10 one end of a very accurate balance, and counterpoifed by weights at the other, and how the degres of moifture or drynefs by the afcent or defcent of one of the ends. But, befides that fuch kinds of hygrometers are deftitute of any fixed point from whence to begin their fcale, they have another inconץenience (from which indeed Smeaton's is not free, and

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## H Y G [ 10

Hygrome- Winea the paper is prepared, as already defuibed, it ter. will ferse, without the trouble of drying, as a flandard for any number of theets intended for the fame purpofe. But then the theets mult be kept together in the opensair for a few hours; becaufe whatever alteration may take place by this cxpofure, the paper already weighed mult have undergone the fame; being confequently in the farne flate, they mufl be cut to the fame weight.

For eafier weighing the paper, take a piece of round tin or brafs the fize of a crown-piece, through the centre of which drill a hole, and alfo three others round it at equal diftances: then cut about one hundred papers; and after putting thera under the tin or brafs, drive through each hole a flrong pin intu a board, in order to round them to the flape of the plate : the papers muft be then feparated and expofed to the air a feir hours with that already weighed, and fo many of them taken as are equal to the weight already fpecified. This done, threadle them together through thofe holes made by the pins, putting between every paper on each thread a frmall bead, in order to prevent the papers from touching each other, and alfo that the air may be more readily admitted. The top of the hygrometer is covered with a card cut to the fame fize; and which, by reafon of its flifnefs, fupports all the papers, and keeps them in proper fhape. Before the papers are threaded, the beads, filk, card, and a thin piece of brafs about the fize of a fixpence, which muft be placed at the bottom, and through which the centre ftring palfes, muft be weighed with the greateft exactnefs, in order to bring them to a certain weight, fuppofe 50 grains; yow the paper in its driell ftate being of equal weight, they will weigh together 100 grains, coufequently what they weigh more at any pime is moifture.

To obviate the trouole and difficulty of making experiments with weights and fcales, Mr Coventry contrived a machine or feale by which to determine at one view the humidity or drynefs of the atmofphere. This, with its cafe, is reprefented by fig. 12. The front and back of the cafe are glafs; the fides fine grauze, which excludes the duft and admits the air; the cafe is about ten inches high, 8 inches broad, and 4 inches deep. A, a brafs bracket in front, behind which, at about $3^{\frac{1}{2}}$ inches diftance, is another; thefe fupport the axis of the index $E$, alfo of the beam $D$, and another which fupports the fem $B$, to which the ivory fcale of divifions C is fixed. G , a brafs fcale fulpended in the ufual manner to the end of a beam D, and weighing exactly 100 grains. This fale is an exact counterpoife to the papers I and the different apparatus. The particular manner of fufpenfion in this balance is, from the conftruction, as follows: The axis of the beam $g$, which is made of brafs, inftead of hanging on pivots, as in common fcales, turns with two fteel edges $k k$, fixed in the extremities of the brafs axis : thefe edges are thaped like the edge of a lnife, and act on two fleel concave edges $/ /$, in order to render the frition as fmall as poffible. D , is a fine feale beam fixed at right angles with the axis $\xi$. E, the feel index fixed to the under fide of the famc axis. $\mathbf{F}$, a brals fliding weight: $h$ is the axis that holds the flem $B$ to which the feale of divifions $C$ is fixed. AA, the brafs brackets which fuppost the whole by four
fcrews, two of which are feen at $i i$, that forew the Hygromebraclets to the top of the cafe. The axis of the fcale of divifions is hung on pivots, one of which is feen at $m$, that, fhould the cafe not fland level, the flem B may always be in a perpendicular fituation.

The hygrometer, before ufe, ftould be adjufted as follows: To the end of the beam where the hygrometer is furpended, hang a weight of 100 grains, which is equal to the weight of the fcale; then move the fliding weight F up or down the index E , till one grain will caufe the index to traverfe neither more nas lefs than the whole fcale of divifions; then add half a grain to the fcale, in order to bring the index to 0 ; and the inftrument, after taking off the 100 grain weight and hanging on the papers, is fit for ufe; thens put grain weights in the fcale till the index is brought within compals of the fcale of divifions. Example: H is 3 grains on the brafs fcale, and the index points at 10 ; confequently there is 3 grains and 10 hundredths of a grain of moiflure in the papers. If four grain weights are kept, viz. $1,2,4$, and 5 , they will make any number from 1 to 9 , which are as many as will be wanted. Sometimes the index will continue traverfing within the foale of divifions for many days without ibifting the weights; but if otherwife, they mult be changed as occafion may sequire.
"One great advantage of this hygrometer above all others that have attracted my notice is (fays Mr Coventry), that it acis from a certain datum, namcly, the dry extreme; from which all the variations towards moif are calculated with certainty : and if conftructed with that precifion reprefented by the drawing, it will afford pleafure to the curious in obferving the almoit perpetual alteration of the atinofphere, even in the moft fettled weather. In winter it will be conflantly traverfing from about eight in the morning till four or five in the afterroor, towards dry; and in fummer, from about four in the morning till fix or feven in the evening, when the weather is hot and gloony, the hygrometer difcovers a very great change towards moiflure; and when clear and frofly, that it contains a much greater quantity of moifure than is generally imacined."

An improvement has been propofed of this kind of hygrometer, of which the following circumflance, it is faid, fuggelted the firf hint. While Mr Lowitz was at Dmitriewfk in Aftracan, he found on banks of the Wolga, a thin bluifh kind of flate which attracted moifture remarkably foon, but again fuffered it as foon to efcape. A plate of this ilate weighed, when brouglt to a red heat, 175 grains, and, when faturated with water, 247: it had therefore imbibed, between complete drynefs and the point of complete moilture, 72 grains of water. Lowitz fufpended a round thin plate of this flate at the end of a very delicate balance, faftened within a wooden frame, and fufpendedat the other arm a chain of filver wire, the end of which was made falt to a fliding nut that moved up and down in a fmall groove on the edge of one fide of the frame. He determined, by trial, the polition of the nut when the balance was in equilibrio and when it had ten degrees of over-weight, and divided the face between thefe two points into ten equal parts, adding fuch a number more of thefe parts as might be necelfary. When the fonc was fufpended from the one arm

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Hygroze- of the balance, and at the other a weight equal to 175 ${ }^{\text {ter }}$ grains, or the weight of the flone when perfectly dry, Hylac. the nut in the groove fhewed the excefs of weight in grains when it and the chain were fo adjufted that the balance ftood in equilibrio. A particular apparatus on the fame principles as a vernier, applied to the nut, thewed the Excefs of weight to ten parts of a grain. Lowitz remarked that this hygrometer in continued wet weather gave a moilture - more than 15 grains, and in a continued heat of 113 degrees of Fahreuheit only $1 \frac{1}{2}$ degree of moifture.
The hygrometer thus invented by Lowitz rwas, however, attended with this fault, that it never threw off the moifure in the fame degrce as the atmofphere became drier. It was alfo fometimes very deceitful, and announced moifture when it ought to have indicated that drynefs had again begun to take place in the atmofphere. To avoid thefe inconveniences, M. Hochheimer propofes the following method:
x. Take a fquare bar of fteel about two lines in thicknefs, and from ten to twelves inches in length, and form it into a kind of balance, one arm of which ends in a fcrew. On this ferew let there be fcrewed a leaden bullet of a proper weight, inftead of the common weights that are fufpended. 2. Take a glafs plate about ten inches long, and feven inches in breadth ; defroy its polihi on both fides, free it from all moifture by rubbing it over with warm afhes, fufpend it at the other end of the balance, and bring the balance into equilibrium by fcrewing up or down the leaden bullet. 3. Mark now the place to which the leaden bullet is brought by the fcrerv, as accurately as poffible, for the point of the greatef drynefs. 4. Then take away the glafs plate from the balance, dip it completely in water, give it a fhake that the drops may run off from it, and wipe them carefully from the edge. 5. Apply the glais plate thus moiftened again to the balance, and bring the latter into equilibrium by fcrewing the leaden bullet. Mark then the place at which the bullet flands as the higheft degree of moifture. 6. This apparatus is to be fufpended in a fmall box of well dried wood, fufficiently large to fuffer the glafs plate to move up and down. An opening muft be made in the lid, exactly of fuch a fize as to allow the tongue of the balance to move freely. Parallel to the tongue apply a graduated circle, divided into a number of degrees at pleafure, from the higheft point of drynefs to the higheft degree of moiflure. The box muft be pierced with frall holes on all the four fides, to give a free palfage to the air ; and to prevent moifure from penetrating into the wood by rain, when it may be requifite to expofe it at a window, it muft either be lackered or painted. To fave it at all times from rain, it may be furnifhed with a fort of roof.

For a defcription of Mr Leflie's Hygrometer, fig. 13. and in a more portable forn, fig. I4. lee Meteorology Index.
hygroscope. The fame with Hygrometer.
HYLA, in Ancient Geography, a river of Myfia Minor, famous for Hylas the favourite boy of Hercules, who was carried down the fream and drowned. It is faid to run by Prufa; whence it feems to be the fame with the Rlyndacus, which runs north-weft into the Pro. pontis.

HYLAS, in fabulous hiftory, fon of Thcodamue,
was ravilhed by the nymphs of a fountain as he was Ityloroifs, taking out fome water for Hercules, by whom he was Mymen. beloved.

HY LOZOISTS, formed of war matter, şan life, tive name of a fect of atheilts among the ancient Greek philofophers, who held matter to be animated; maintaining that matter had fome natural perception, without animal fenfation, or reflection in itfelf confidered; but that this imperfect life occafioned that organization whence fenfation and reflection afterwards arofe. Of theie, fome held only one life, which they called a PLASTIC nature, prefiding regularly and invariably over the whole corporeal univerfe, which they seprefented as a kind of large plant or vegetable: thefe were called the cofimoplaflic and fooical athcifts, becaufe the Stoics held fuch a nature, though many of them fuppofed it to be the inffrument of the Deity. Others thought that every particle of matter was endued with life, and made the mundane fyitem to depend upon a certain mixture of chance and plaftic or orderly nature united together. Thefe were called the Siratorici, from Strato Lampfacenus, a difciple of Theophrallus, called alio Phyficus (Cicero de Nat. Deor. 1ib. 1. cap. 13.) who was firf a celebrated $P_{\text {tripatetic, and afterwards }}$ formed this new fyllem of atheifar for himielf. Befides thefe two forms of atheif, Come of the ancient philofophers were Hylopathians, or Avaximandriass, deriving all things from dead and fupid matter, in the way of qualities and forms, generable and corruptible; and others again adopted the atomical or Democritical fyllem, who afribe the production of the univerfe to atoms and figures. See on this fubject Cudwarth's Intellertual Syftem, book i. chap. 3.

HYMEN, or Hymexieus, a fabons divinity, the fon of Bacchus and Verius Uiania, was fuppofed by the ancients to prefide over marriages; and accordingly was invoked in epithalamiums, and other matrimonial ceremonies, under the formula, Hymen, or Hymence!

The poets generally crown this deity with a chaplet of rofes; and reprefent him, as it were, diffolved and enervated with pleafures, dreffed in a yellow robe and thoes of the fame colour, with a torch in his hand.-Catullus, in one of his epigrams, addrefes him thus:

## Cinge tempora foribus <br> Suaveolentis amaraci.

It was for this reafon, that the new-married couple bore garlands of tlowers on the wedding-day: which cuftom alfo obtained among the Hebrews, and even among Chifians, during the firft ages of the church, as appears from Tertullian, De corona militari, where he fays, Coronant et rupta Sponfos.-S. Chryfoftom, likewife mentions thefe crowns of Howers; and to this day the Greeks call marriage separopex, in refpect of this crown or garland.

Hymen, 'Ypay, in Anatomy, a thin membrane or fkin, fometimes circular, of differcnt breadths, more or lefs fmooth, and fometimes femilunar, formed by the union of the internal membrane of the great canal with that on the infide of the ala, refembling a piecc of fine parchment. This membrane is fuppofed to be ftretched in the neck of the womb of virgins, below the nympl:x, leaving in fome fubjcets a very fmall opening,

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Hymen. in othcrs a larger, and in all rendering the external orifice narrower than the reft of the cavity, and to be broke when they are deflowead ; an effufion of blood following the breach.

The membranous circle may likewife fuffer fome diforder by too great a flux of the menfes, by imprudence, levity, and other particular accidents.

The hymen is generally looked upon as the teft of virginity; and when broke, or withdrawn, fhows that the perfon is not in a flate of imocence. This notion is very ancient. Among the Hebrews, it was the cultom for the parents to fave the blood ihed on this occafion as a token of the virginity of their daughter, and to fend the fheets next day to the hurband's relations. And the like is faid to be ftill practifed in Portugal, and fome other countrics.

And yet authors are not agreed as to the exiftence of fuch a membrane. Nothing, Dr Drake obferves, has employed the curiofity of anatomifts, in diffecting the organs of gencration in women, more than this part: they have differed not only as to its figure, fubllance, place, and perforation, but even its reality; fome pofitively affirraing, and others flatly denying it.

De Graaf himfelf, the mof accurate inquirer into the fruelure of thefe organs, confeffes he always fought it in vein, though in the moft unfufpected fubjects and ages : all he could find was, a different degree of itraitr.efs or widenefs, and different corrugations, which were greater or 1 ffs according to the refpective ages; the aperture being ftill the lefs, and the rugoities the greater, as the fubject was younger and more untouched.

Dr Drake, on the other hand, declares, that in all the fubjects he had opportunity to examine, he does not remember to have miffed the bymen to much as once, where he had reafon to depend on finding it. The faireft view he ever had of it was in a maid who died at thirty years of age; in this he found it a membrane of fome fltergth, furnilhed with flefly fibres, in figure round, and perforated in the middle with a fmall hole, capable of admitting the end of a woman's little finger, and fituated a little above the orifice of the urinary paffage, at the entrance of the vagina of the womb.

In infants it is a fine thin membrane, not very confpieuous, becaufe of the natural flraitnefs of the paffage itfelf, which does not admit of any great expanfion in fo little room; which might lead De Graaf into a notion of its being no more than a corrugation.

This membrane, like moft others, does probably grow more diftinct, as well as firm, by age. That it not only exifts, but is fometimes very frong and impervious, may be collected from the hiflory of a cafe reported by Mr Cowper. In a married wonan, twenty years of age, whofe hymen was found altogether impervious, fo as to detain the menfes, and to be driven out by the preflure thereof beyond the labia of the pudendum, not unlike a prolapfus of the uterus; on dividing it, at leaft a gallon of grumous blood came forth. It feems the hufband, being denied a paffage that way, had found another through the meatus urinarius; which was found very open, and its fides extended like the anus of a cock.

Upon a rupture of the hymen, after the confummation of marriage, and efpecially delivery, its parts,
flrinking up, are fuppofed to form thofe little fleily Hymenx ${ }^{2}$ knots, called caruncele myrtiformes.

HYMENAEA, the rastard locust tree ; a genus of plants, belonging to the decandria clafs; and in the natural mothod ranking under the 33 d order, Lomentacea. See Botany Index.

HYMENÆAL, fomething belonging to marriage; fo called from Hymes.

HYMENOPTERA (derived from ${ }^{2} \mu$ ry $m e m b r a n c$, and mifeor zeing), in the Linnzan fyltem of natural hiftory, is an order of infects, having four membranaceous wings, and the tails of the females are furnifhed with ftings, which in fome are ufed for inftilling poifon, and in others for merely piercing the bark and leaves of trees, and the bodies of other animals, in which they depofit their eggs. Sce Estomology Index.

HYMETTUS, in Ancient Geography, a mountain of Attica near Athens, famcus for its marble quarries, and for its excellent honcy. Hymeltius the epithet. Pliny fays that the orator Craffus was the firft who had marble columns from this place.
HYMN, a fong or ode in honour of God; or a poem, proper to be fung, compofed in honour of fome deity. - The word is Greck, i $\mu$ vos i. iymn, forned of the verb ibu celebro, "I celebrate."-Ifiodore, on this word, remarks, that liymn is properly a fong of joy, full of the prailes of God; by which, according to him, it is diflinguifhed from thirena, which is a mourning fong, full of lamentation.
St Hilary, bihop of Poikiers, is faid to have been the firlt that compofed hymns to be fung in churches, and was followed by St Ambrofe. Molt of thofe in the Roman Breviary were compofed by Prudentius. They have been tranflated into French verfe by Mefo fieurs de Port Royal.- In the Greek Liturgy there are four kinds of hyinns; but the word is not taken in the fonfe of a praife offered in verfe, but fimply of a laud or praife. The angelic hymn, or Gloria in cxcel/is, makes the firit kind; the trijagion the fecond; the Cherubic hymn, the third; and the hymn of victory and triumph, called $\varepsilon \pi$ masios, the laft.
The hymns or odes of the ancients generally confilted of three forts of flanzas; one of which, called Arophe, was fung by the band as they walked from eaft to weft ; another, called antiffrophe, was performed as they returned from weft to eaft; the third part, or epode, was fung before the altar. The Jewifh hymns were accompanied with trumpets, drums, and cymbals, to affift the voices of the Levites and people.
HYOBANCHE, a genus of plants belonging to the didynamia clafs. See Botany Index.
HYOIDES, in Anatomy, a bone placed at the root of the tongue. See Aरatomy, $\mathrm{N}^{\circ} 28$.
HYOSCYAMUS, henbane; a genus of plants belonging to the pentandria clafs, and in the natural method ranking under the 28th order, Luridic. See Botany and Materia Medica Index.
HYOSERIS, a genus of plants belonging to the fyngenefia clafs, and in the natural method ranking under the 49 hl order, Compofitce. See Botaxy Index.

HYO-THYROIDES, in Anatomy, one of the mufcles belonging to the os hyoides. See Avatomy, Table of the Mufcles.

HYPALLAGE,

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HYPALLAGE, among grammarians, a fpecies of hyperbaton, confifting in a mutual pcrmutation of one cafe for another. Thus Virgil fays, Dave clafibus auffros, for dare claftes auflris; and again, Nec dum illis labra admovi, for nec dum illa Inbris adnovi.
hypante, or Hiperpante, a name given by the Greeks to the feaf of the prefentation of Jefus in the temple.-This word, which fignifies lowly or humble meeting, was given to this feaft from the meeting of old Simeon and Anna the prophetefs in the temple when Jefus was brought thither.

HYPATIA, a learned and beautiful lady of antiquity, the daughter of Theon a celebrated philofopher and mathematician, and prefident of the famous Alexandrian fchool, was born at Alexandria about the end of the fourth century. Her father, encouraged by her extraordinary genius, had her not only educated ia all the ordinary qualifications of her fex, but inffruted in the molt abffrufe fciences. She made luch great progrefs in philofophy, geometry, aftronomy, and the mathematics, that the paffed for the molt learned perfon of her time. At length the was thought worthy to fucceed her father in that diftinguilhed and important employment, the government of the fchool of Alexandria; and to teach out of that chair where Ammonius, Hierocles, and many othcr great men, had taught before; and this at a time too when men of great learning abounded both at Alexandria and in many other parts of the Roman empire. Her fame was fo extenfive, and her worth fo univerfally acknowledged, that we cannot wonder if the had a crowded auditory. "She explained to her hearers (fays Socrates) the feveral fciences that go under the general name of philofophy; for which reafon there was a confluence to her from all parts of thofe who made philofophy their delight and fludy." One cannot reprefent to himfelf, without pleafure, the Hower of all the youth of Europe, Afia, and Africa, fitting at the feet of a very beautiful lady (for fuch re are affured Hypatia was), all grecdily fwallowing inftruction from her mouth, and many of them, doubtlefs, love from her eyes; though we are not fure that the ever liftened to any folicitations, fince Suidas, who talks of her marriage with Ifodorus, yet relates at the fame time that fle died a inaid.

Her fcholars were as eminent as they were numerous; one of whom was the celebrated Synefius, who was afterwards bithop of Ptolemais. 'I his ancient Chrillian Platonif everywhere bears the frongeft, as $\therefore$ ell as the molt grateful, teflimony of the virtue of his tutorefs; and never mentions her without the moit Irrofound refpect, and fometimes in terms of.affection coming little fhort of adoration. But it was not Syuefius only, and the difciples of the Alexandrian fchool, who admired Hypatia for her virtue and learning: never was woman more carefled by the public, and yet never woman had a more unfpotted character. She was held as an oracle for her wifdom, which made her confulted by the magittrates in all important cafes; and this frequently dre: her among the greatcft concourfe of men, without the leaft cenfure of her manners. In a word, when Nicephorus intended to pafs the ligheft compliment on the princefs Eudocia, he thought he could not do it beteer than by calling her another Hypatia.

## H Y P

While Hypatia thus reigned the brighteft orma. Hypecoum ment of Alexandria, Oreftes was governor of the II fame place for the emperor Theodofus, and Cyril was Hyperba-lame place for the emperor the odinu, and Cyril was
bifop or patriarch. Oreftes having had a liberal education, could not but admire Hypatia; and as a wife governor frequently confulted her. Hais, together with an averfion which Cysil had againt Oreftes, proved fatal to the lady. About 500 monks affembling, attacked the governor one day, and wou!d have killed him, had he not been refcued by the townfmen; and the refpect which Oreftes had for Hypatia caufing her to be traduced among the Chriftian multitude, they dragged her from her chair, tore her to pieces, and burned her limbs. Cyril is not clear from a fufpicion of fomenting this tragcdy. Cave indeed endeavours to remove the imputation of fuch an horrid action from the patriarch ; and lays it upon the Alexandrian mob in general, whom he calls lceifimum hominumn genus, "a very trifling inconftant people." But though Cyril fhould be allowed neither to have been the perpetrator, nor even the contriver of it, yet it is much to be fufpected that he did not difcountenance it in the manner he ought to have done: which fufpicion mult needs be greatly confirmed by retiecting, that he was fo far from blaming the outrage committed by the monks upon Oreftes, that be afterwards received the dead body of Ammonius, one of the moft forward in that outrage, who had grievoully wounded the governor, and who was jutly pu: nifhed with death. Upon this iiotous ruffian Cyril made a panegyric in the church where he was laid, in which he extolled his courage and conflancy, as one that had contended for the truth; and changing his name to Thau"nafius, or the "Admirable," ordered hin to be confidered as a martyr. "However, (continues Socrates), the wifent part of Chriltians did not approve the zeal which Cyril fhowed on this man's behalf, being convinced that Ammonius had jultly fuffered for his defperate attempt."

HYPECOUM, wild cumis, a genus of plants belonging to the tetrandria clafs; and in the natural method ranking under the $24^{\text {th }}$ order, Corydales. See Botasy Index.
HYPER, a Greek prepofition frequently ufed in compofition, where it denotes excefs; its literal fignification being above, or beyond.
HYPERBATON, in Grammar, a figurative cons ftruction inverting the natural and proper order of words and fentences. The feveral fpecies of the hyperbaton are, the anaftrophe, the hyfteroa-proteron, the hypallage, fynchyfis, tmefis, parenthefis, and the hyperbaton ftrietly fo called. See Anastrophe, \&c.
Hyperbiton, ftrictly fo called, is a long retention of the verb which completes the fentence, as in the following example from Virgil :
Interen Reges: ingenti mole Latinus.
Quadrijugo velitur curru, cui iempora circum
Aurati bis fex radiö fulgentia cingunt,
Solis avi fpecimen: bigis it Turnus in albis,
Bina manu lato crifpans hafilia ferro:
Hinc Patcr Eneas, Romana Alirpis origo,
Sidereo fagrans clypeo et cxlefibus armir;
Et jurta Afcanius, ragne fpes altera Roma:
Procedunt cirfris.

HYPERBOLA.

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ITfrperbola, Hyperbole. HYPERBOLA, a curve formed by cutting a $\underbrace{\text { perbole in a direction parallel to its axis. See Covic }}$ Spections.

Hzperbola Deficient, is a curve having only one afymptote, though two hyperoolic legs rumning out infinitely by the fide of the afymptote, but contrary ways.

HYPERBOLE, in Rhetoric, a figure, whereby the truth and reality of things are excenively either enlarged or diminifhed. See Oratory, $\mathrm{N}^{\circ} 58$.

An object uncommon with refpect to fize, either very great of its kind or very little, ftrikes us with furprife; and this emotion forces upon the mind a momentary conviction that the object is greater or lefs than it is in reality: the fame effect precifely attends figurative grandeur or littlenefs; and hence the hyperbole, which expreffes this momentary conviction. A writer, taking advantage of this natural delufion, enriches his defcription greatly by the hyperbole : and the reader, even in his cooleft moments, relifhes this figure, being fenfible that it is the operation of nature upon a warm fancy.

It cannot have efcaped obfervation that a writer is generally more fuccefsful in magnifying by a byperbole than in diminifhing. The reafon is, that a minute object contracts the mind, and fetters its powers of imagination; but that the mind, dilated and inflamed with a grand object, moulds objects for its gratification with great facility. Longinus, with refpect to a diminifhing hyperbole, cites the following ludicrous thought from a comic poet: "He was owner of a bit of ground not larger than a Lacedemonian letter." But, for the reafon now given, the hyperbole has by far the greater force in magnifying objects; of which take the following example:

For all the land which thou feeft, to thee will I give it, and to thy feed for ever. And I will make thy feed as the duft of the earth: fo that if a man can number the duft of the earth, then flall thy feed allo be numbered.

Gen. xiii. 15. 16.

## Illa vel intactie fegetis per fumma volaret Gramina, uec teneras curfu lafilfet ariftas.

Eneid. vii. 808.
__——Atque imo barathri ter gurgite vafios
Sorlet in abruptum fuctus, rurfufque fub auras Erigit alternos, et jidera verberat unda.

Eneid. iii. 42 I .
——Horrificis juxta tonat 厄tna ruinis, Interdumque atram prorumpit ad cethera nubem, Turbine fumantem piceo et candente favilla: Altollitque globos fiammarum, et fidera lambit.

Eneid. iii. 57x.
Speaking of Polyphemus,


When he fpeaks,
'The air, a charter'd libertine, is ftill. Henry V. act. i. fc. $x$.
Now flield with flield, with helmet heimet clos'd, To armour armour, lance to lance oppos'd,

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Hoft againft hof with fhadowy fquadrons drew, Hyperibole. The founding darts in iron tempefts flew, Victors and vanquilh'd join promifcuous cries, And ibrilling thouts and dying groans arife; With ffreaming blood the flipp'ry fields are dy'd, And flaughter'd heroes fwell the dreadful tide.

Iliad iv. 508.
Quintilian is fenfible that this figure is natural:
"For (fays he), not contented with truth, we naturally incline to augment or diminifh beyond it; and for that reafon the hyperbole is familiar even among the vulgar and illiterate;" and he adds, very jully, "'That the hyperbole is then proper, when the object of jtfelf exceeds the common meafure." From thefe premifes, one would not expect the following inference, the only reafon he can find for jultifying this figure of fpeech, Conceditur enimi amplius diccre, quia dici quantum eft, nou potef: meliefque ultra quam citra Rat oratio." (We are indulged to fay more than enough, becaufe we cannot fay enough; and it is bctter to be above than under.) In the name of wonder, why this flight and childifh reafoning, when immediately before he had obferved, that the hyperbole is founded on human nature? We could not refill this perfonal Aroke of criticifm; intended not againft our author, for no human creature is exempt from error ; but againf the blind veneration that is paid to the ancient claffic writers, without difinguithing their blemifies from their beauties.

Having examined the nature of this figure, and the principle on which it is erected, let us proceed to the rules by which it ought to be governed. And, in the firft place, it is a capital fault to introduce an hyperbole in the defcription of an ordinary object or event; for in fuch a cale, it is altogether unnatural, being deflitute of furprife, its only foundation. Take the following inflance, where the fubject is extremely familiar, viz. fwimming to gain the fhore after a flipwreck.

I faw him beat the furges under him,
And ride upon their backs: he trode the water; Whofe enmity he flung afide, and breafted
The furge mofl froln that met him: his bold head
'Bove the contentious waves he kept, and oar'd
Himfelf with his good arms, in lufty flrokes
To th' foore, that o'er his wave-born bafis bow'd, As flooping to relieve him. Tcmpef, act ii. fc. 1.
In the next place, it may be gathered from what is faid, that an hyperbole can never fuit the tone of any difpiriting paffion: forrow in particular will never prompt fuch a figure; and for that reaton the following hyperboles mult be condemned as unnatural:
K. Kich. Aumerle, thou weep't, my tender-
hearted coufin!

We'll make foul weather with defpifed tears:
Our fighs, and they, fhall lodge the fummer-corn, And make a dearth in this revolving land.

Richard 1I. act. iii. fc. 6.
Draw them to Tyber's bank, and weep your tears
Into the channel, till the loweft fream
Do kifs the mont exalted fhore of all.
Julius Grefar, act i. fc. s. 'Thirdly,

## H $Y$ P $\quad 15$

Hyperioole. Thirdly, A writer, if he widh to fucceed, ought al $\underbrace{\text { Wrer }}_{\text {ways to have the reader in his eye : he ought, in par- }}$ ticular, never to venture a bold thought or expreflion, till the reader be warmed and prepared. For this reafon, an hyperbole in the beginning of a work can never be in its place. Example :

## fam pauca aratro jugera regire <br> Moles relinquent. Horat. Carm. lib. ii. ode 15 .

In the fourth place, The nicelt point of all is, to afcertain the natural limits of an hyperbole, beyond which being overltrained, it has a bad effect. Longinus (chap. iii.), with great propriety of thought, enters a caveat againf an hyperbole of this kind: he compares it to a bow-ftring, which relaxes by overftraining, and produceth an effect directly oppofite to what is intended. To afcertain any precife boundary, would be difficult, if not impracticable. We fhall therefore only give a fpecimen of what may be reckoned overftrained hyperboles. No fault is more common among writers of inferior rank; and inftances are found even among thole of the fineft talte; witnefs the following hyperbole, too bold even for an Hot Ppur.

## Hotfpur talking of Mortimer

In fingle oppofition hand to hand,
He did confound the beft part of an hour
In changing hardiment with great Glendower.
Three times they breath'd, and three times did they drink,
Upon agreement, of fivift Severn's flood;
Who then affrighted with their bloody looks, Ran fearfully among the trembling reeds,
And hid his crifp'd head in the hollow bank,
Blood-ftained with thefe valiant combatants.
Firft Part Henry IV. act i. fc. 4.
Speaking of Henry V.
England ne'er had a King until this time.
Virtue he had, deferving to command:
His brandifl'd fword did blind men with its beams:
His arms fpread wider than a dragon's wings :
His farkling eyes, replete with awful fire,
More dazzled, and drove back his enemies,
Than mid-day fun fierce bent againt their faces.
What thould I fay? his deeds exceed all fpeech :
He never lifted up his hand, but conquer'd.
Firl? Part Henry VI. act i. fc. I.
Laftly, An hyperbole, after it is introduced with all advantages, ought to be comprehended within the feweft words poffible: as it cannot be relifhed but in the hurry and fwelling of the mind, a leifurely view diffolves the charm, and difcovers the defcription to be estravagant at lealt, and perhaps alfo ridiculous. This fault is palpable in a fonnet which paffeth for one of the mof complete in the French language: Phillis, in a long and tlorid defcription, is made as far to outshine the fun as he outhines the flars:

> Le filence regnoit fur la terre et fur l'onde, I'air devenoit ferrain et 'IOlimp vermeil, Et I'amoureux Zephir afranchi du fomet', Reflufeitoit les geurs d'une haleine fecondic.

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I' Aurore depluyoit l'or de fa trefle blunde, Et femoit de rubis le chemin du foleil; Enfin ee Dieu venoit au plus grand appareil
$V^{9} u^{\prime}$ il foit jamais venus pour eclaircr le monde:
Quand la jeune Phillis au vifage riant, Sortant de fon palais plus chair que l'oriene,
Fit voir une lumicre et plus vive et plus belle.
Sacre Flambenu du jour, n'en foies point jaloux, Vous parutes alors aufi peu devant alle, Que les feux de la nuit avoient fait devant vous.

Malleville.
There is in Chaucer a thought expreffed in a fingle line, which fets a young beauty in a more advantageous light than the whole of this much laboured poem:

Up role the fun, and up rofe Emelie,
HYPERBOREAN, in the Ancient Geography. The ancients denominated thofe people and places Hyperborean which were to the northward of the Scythians. They had but very little acquaintance with thefe Hyperborean regions; and all they tell us of them is very precarious, much of it falfe. Diodorus Siculus fays, the Hyperboreans were thus called by reafon they dwelt beyond the wind Boreas; $i \pi \pi^{\circ} \mathrm{g}$ fignifying, "above, or beyond," and Boezas, Boreas, the " north wind." This ctymology is very natural and plaufible; notwithfanding all that Rudbeck has faid againft it, who would have the word to be Gothic, and to fignify nobility. Herodotus doubts whether or not there were any fuch nations as the Hyperborean. Strabo, who profefles that he believes there are, does not take hyperborean to fignify beyond Boreas or the north, as Herodotus underfood it : the prepofition imse, in this cafe, he fuppofes only to help to form a fuperlative; fo that layperborean, on his principles, means no more than mof northern; by which it appears the ancients farce knew themfelves what the name meant.-Moft of our modern geographers, as Hoffman, Cellarius, \&c. have placed the Hyperboreans in the northern parts of the European comtinent, among the Siberians and Samoieds: according to them, the Hyperboreans of the ancients were thofe in general who lived fartheft to the north. The Hyperboreans of our days are thofe Rufians who inhabit between the Volga and the White fea. According to Clevier, the name Celtes was fynonymous with that of Hy perboreans.
HYPERCATALECTIC, in the Greek and Latin poetry, is applied to a verfe that has one or two. fyllables too much, or beyond the regular and juft meafure; as,

## Muffe forores funt Minervice:

Alfo,

## Mufe forores Palladis lugent.

HYPERCRITIC, an over-rigid cenfor or critic: one who will let nothing pafs, but animadverts feverely on the flighteft fault. See Criticisu. The word is compounded of imeg fupcr, " over, above, be-
 " I judge."

HYPERDÚLA

## $\mathrm{H} \quad \mathrm{Y} \quad \mathrm{P}$

Hyperianiid HYPERDULIA, in the Romill theology, is the worthip rendered to the holy virgin. The word is Greek, ixitg $\delta \nu \lambda \varepsilon \varepsilon$, compofed of $i \pi \varepsilon \xi$, above, and $\delta \nu \lambda \varepsilon \varepsilon x$, quor/bip, Service. 'The worlhip offered to faints is called dulia; and that to the mother of God, hyperdalia, as being fuperior to the former.

HYPERIA, in Ancient Geography, the feat of the Pheeacians near the Cyclops, (Homer): fome commentators take it to be Camarina in Sicily; but, according to others, it is fuppofed to be an adjoining ifland, which they take to be Melita, lying in fight of Sicily. And this feems to be crofifmed by Apollonius Rhodius. Whence the Pheacians afterwards removed to Corcyra, called Scheria, Pheacia, and Macris; having been expelled by the Pheenicians, who fettled in Melita for commerce, and for commodious harbours, before the war of Troy, (Diodorus Siculus.)

HYPERICUM, ST JOhv's wort, a genus of plants belonging to the polyadelphia clafs, and in the natural method ranking under the 20th order, Rotacers. See Butanyy Index.

HYPERIDES, an orator of Greece, was the difciple of Plato and Ifocrates, and governed the republic of Athens. He defended with great zeal and courage the liberties of Greece; but was put to death by Antipater's order, 322 B. C. He compofed many orations, of whi.ch only one now remains. He was one of the ten celebrated Greek orators.

HYPERMNESTRA, in fabulous hiftory, one of the fifty daughters of Danaus king of Argos. She alone refufed to obey the cruel order Danaus had given to all his daughters, to murder their buibands the firit siight of their marriage ; and therefore faved the life of Lynceus, after the had made him promife not to violate her virginity. Danaus, enraged at her difobedience, confined her clofely in prifon, whence Lynceus delivered her fome time after.

HYPERSARCOSIS, in Medicine and Surgery, an excefs of tleih, or rather a flefhy excrefeence, fuch as thofe generally rifing upon the lips of wounds, \&c.

HYPHEN, an accent or character in grammar, impying that two words are to be joined, or connected into one compound word, and marked thus -; as pre-eflabli/bed, five-leaved, \&c. Hyphens alfo ferve to connect the fyllables of fuch words as are divided by the end of the line.

HYPNOTIC, in the Materia Medica, fuch medicines as any way produce fleep, whether called narcotics, hypnotics, opiates, or foporifics.

HYPNOTICUS serpens, the Sleep-frake, in Zoology, the name of an Ealt Indian fpecies of ferpent, called by the Ceylonefe nintipolong, a word importing the fame fenfe. It is of a deep blackifh browa, variegated with fpots of white, and is a very fatal kind in its poifon: its bite it is faid brings on a fleep which ends in death; hence this trivial name.

HYPNUM, feather-moss, a genus of plants of the natural order of mufci, belonging to the cryptogamia clafs. See Botany Index.

HYPO, a Greek particle, retained in the compofition of divers words borrowed from that language; literally denoting under, beneath.-In which fenfe it itands oppofed to $\dot{\text { unteg fupra, " above." }}$

HYPOBOLE, or SUBJECTION, (from i.To, and $\beta_{3 \pi \lambda \lambda \omega, ~ I s a f f), ~ i n ~ r h e t o r i c, ~ a ~ f i g u r e ; ~ f o ~ c a l l e d, ~ w h e n ~}^{\text {a }}$
feveral things are mentioned, that feem to make for Hyp:cethe contrary fide, and each of them refuted in order. than fis This figure, when complete, confifts of three parts; a propofition, an enumeration of particulars with their anfwer, and a conclufion. Thus Cicero, upon his re- turn from banifhment, sindicates bis conduct in withdrawing fo quietly, and not oppofing the faction that ejected him. See Oratory, No 81.
HYPOCA'THARSIS (compounded of $i$ tro unde-. and zeidacg I purge), in Medicine, a too faint or feeble purgation.

HYPOCAUSTUN, among the Greeks and Romans, a fubterraneous place, where was a furnace to heat the baths. The word is Greek, formed of the prepofition imo under; and the verb xasw, 30 burn.Another fort of hypocaufum was a kind of kiln to heat their winter parlours. The remains of a Roman hypocauflum, or fweating-room, were difcovered under ground at Lincoln in 1739. We have an account of thefe remains in the Philofophical Tranfactions, $\mathrm{N}^{\circ} 4^{61}$. 29.-Among the moderns, the hypocaullum is that place where the tire is kept which warms a flove or hot-houfe.
HYPOCHAERIS, hawk's-EyE, a genus of plants belonging to the fyngenefia clafs, and in the natural method ranking under the 49th order, Compofitu. See Botany Index.

- HYPOCHONDRIA, in Anatomy, a fpace on each fide the epigaftric region, or upper part of the abdcmen. See Ayatomy, ${ }^{0} 88$.

HYPOCHONDRIAC PASSION, a difeafe in men, fimilar to the hylteric affection in women. See Medicine Index.

HYPOCISTIS, in the Materia Medica, an infpiffated juice obtained from the feffile afarum, much refembling the true Egyptian acacia. They gather the fruit while unripe, and exprefs the juice, which they evaporate over a very gentle fire, to the confiltence of an extract, and then form into cakes, and expofe them to the fun to dry. It is an aftringent of confiderable power; is good againft diarrhœas and hemorrhagies of all kinds; and may be ufed in repellent gargarifms in the manner of the true acacia; but it is very rarely met with genuine in our fhops, the German acacia being ufually fold under its name.
HYPOCRISY, irox̧rors, in Ethics, denotes difinmulation with regard to the moral or religious character. In other words, it fignifies one who feigns to be what he is not ; and is generally applied to thofe who aflume the appearances of virtue or religion, without having any thing in reality of either.
 yena earth, in the ancient archite?ure, is a name common to all the parts of a building that are under ground; as the cellar, butteries, and the like places. The term hypogreunn was ufed by the Greeks and Romans for fubterraneous tombs in which they buried their dead.
Hypogeum, itaratsor, in Afrology, is a name given to the celeftial houfes which are below the horizon: and efpecially the imum coli, or bottom of heaven.
HYPOGASTRIC, an appe!lation given to the internal branch of the iliac artery.
HYPOGASTRIUM, in Anatomy, the middle part

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Fypregtifi of the lower region of the belly. Sec Asatomy, $\mathrm{N}^{\circ} \mathrm{SS}$.
hy POGLOSSI exterst, or majores, in Anatomy, the ninth pair of nervcs, called allo lingualcs and gufictorii. See Anatomy.

HYPOGLOTTIS or Hypoglossis, (compofed of inso under, and yinuite tongue), in Anatomy, is a name given to two glands of the tongue. There are four large glands of the tongue; two of them called hypoglotides, fituated under it, near the venæ ranulares : one on each fide of the tongue. They ferve to fecrete a kind of ferous matter of the nature of faliva, which is difcharged into the mouth by little duits near the gums.
Hypoglottis, or Hypogloffs, in Medicine, denotes an inflammation or ulceration under the tongue; called alfo ranula.

HYPOPYON, in Medicine, a collection of purulent matter under the corner of the eye.

HY POSCENIUM, in antiquity, a partition under the pulpit or logeum of the Greek theatre, appointed for the mufic.

HYPOSTASIS, a Greek term, literally fignifying fubfance, or fubfifence; ufed in theology for perfon.The word is Greek, isosxais; compounded of $i=0$ fub, "under:" and isnue, תo, exifo; "I ftand, I exift;" q. d. fub filentia. Thus we hold, that there is but one nature or eflence in Ged, but three hypofafes or perfons.

The term hypofafis is of a very ancient flanding in the church. St Cyril repeats it feveral times, as alfo the phrafe union according to hypofafis. The firl time it occurs is in a letter from that father to Neforius, where he ufes it inflead of apoowtov, the word we commonly render perfon, which did not feem expreflive enough. "The philofophers (fays St 'Cyril) have allowed three hypoffafes: They have extended the Divinity to three hypofafes: They bave even fornetimes ufed the word trinity: And nothing was wanting but to have admitted the confubflantiality of the three lyypofafer, to thow the unity of the divine nature, exclufive of ail triplicity in rcfpect of diftinction of nature, and not to hold it necelfary to conceive any refpective inferiority of hujpplafes."

This term occafioned great difienfions in the ancient church; fritt among the Grecks, and afterwards alfo among the Latins. In the council of Nice, hypoffafis Was defined to denote the fame with effence or fubfance; fo that it was herefy to fay that Jefus Chriit was of a different hypolafes from the Father; but cultom altered its meaning. In the neceffity they were under of exprefing themfelves Atrongly againf the Sabellians, the Greeks made choice of the word hypoffafis, and the Latins of perfona; which change proved the occafion
 by the Greeks, fcandalized the Latins, whofe ufual way of rendering izoszzus in their language was by fubfantia. The barremmefs of the Latin tongue in theological phrafes, allowed them but one word for the two Greek ones, zors and inaszats; and thus difabled them from ditinguilhing eflence from hyprfafis. For which reafon they chofe rather to ufe the term tres perfona, and tres hypofafes.-An end was put to logomachias, in a fynod beld at Alewandria about the Vol. XI. Part I.
year 362 , at whiciu Si Athanafius affited; from which Hypotiocta time the Latins made no great feruple of laying tres hypofiafes, nor the Grecks of shreo perfors.
$\underbrace{\text { Hypothefis }}$
HY' POTHECA, in the Civil Law, an obligation, whercby the effcets of a debtor are made over to his crediter, to fecure his debt. The word comes from the Greek ixatixx, a thing fubject io forme obligation; of the verb indierinexi, fuppofe, "I am rejested;" of $v \pi \circ$ undcr, and qierus pon?, "I 「ut."

As the hypotheca is an engagement procured on purpofe for the fecurity of the creditor, various means have been made ufe of to fecure to him the be:tefit of the convention. The ufc of the pawn or pleuge is the molt ancient, which is almof -the fame thing with the hypotheca; all the difference confifting in this, that the pledge is put into the creditor's hands; whereas, in a fimple hypotheca, the thing remained in the poffelion of the debtor. It was found more eafy and commo. dious to engage an cltate by a civil corenant than by an actual delivery: accordingly the expedient was firit practifed among the Romans; and from them the Romans borrowed both the nane ard the thing : only the Greeks, the better to prevent frauds, ufed to fi.i fome viable mark on the thing, that the public might know it was hypothccate or mortgaged by the proprietor ; but the Romans, looking on fach advertifements as injurious to the debtor, forbade the ufe of them.

The Roman lawyers dittinguihed four kinds of hypothecas: the conventional, which was with the will and confent of both parties; the legal, which was appointed by law, and for that reafon called tacit; the protor's pledge, when by the flight or non-appearing of the debtor, the creditor was put in pofieffion of his effects; and the judiciary, when the creditor was put in poffeifion by virtue of a fentence of the court.

The conventional hypotheca is fubdivided into general and fpecial. The hypotheca is general, when all the debtor's effects, both prefent and future, are engaged to the creditor. It is §pecial, when limited to one or more particular things.

For the tacit hypotheca, the civilians reckon no leís than twenty-fix different fpccies thereof.

HYPOTHENUSE, in Gcometry, the longeft fide of a right-angled triangle, or that which futterds the right angle.

HYPOTHESIS, (formed of ine " under," and $श_{\text {a } \sigma, t \text {; pofitio, of tuelrus pono, "I put"), is a propofition }}$ or principle which we fuppofe, or take for granted, in order to draw conclufions for the proof of a point in queftion.

In difputation, they frequently make falle hypothefes, in order to draw their antagonifts into abfurdities; and even in geometry truths are often deducible from fuch falle hypothefes.

Every conditional or hypothetical propofition may be diftinguilled into hypothefis and thefis: the firlt rehearfes the conditions under which any thing is affirmed or denied; and the later is the thing itfelf affirmed or denied. 'Thus, in the propofition, a triangle is half of a parallelogram, if the bafes and altitudes of the two be equal ; the latter part is the hypothefis, "if the bafes," \&c. and the former a thefis, "a triangle is half a parallelogram."

In Arift logic, we are never to pafs from the hypo-
thefis

Thyputhelis thefis to the thefis; that is, the principle fuppofed nual be proved to be true, before we require the confequence to be allowed.

Hylothrsis, in Physics, \&c. denotes a kind of fyltem lidd down from our own imagination, whereby to account for fome phenomeron or appearance of nature. Thus we have hypothefes to account for the titles, for gravity, for maguetifm, for the deluse, \&ic.

The real and fecientific caufes of natural things generally lic very deep: obfervation and experiment, the proper means of arriving at them, are in moft cafes extremely flow, and the human mind is very impatient: hence we are frequently driven to feign or invent fomething that may feem like the caule, and which is calculated to anfiver the feveral phenomena, fo that it may poffibly be the true caufe.

Philofophers are divided as to the ufe of fuch fictions or hypothefes, which are much lefs current now than they were formerly. The lateft end beft writers are for excluding hypothefes, and ftanding wholly on obfersation and experiment. Whatever is not deduced from phenomena, fays Sir Ifaac Newton, is an hypothefis; and hypothefes, whether metaphyfical, or phyfical, or mechanical, or of occult qualities, have no place in experimental philofophy.

The Cartefians take upou them to fuppofe what affections in the primary particles of matter they pleare ; julf what figures, what magnitudes, what motions, and what fituations, they find for their purpoie. They allo feign certain unfeen, unknown fluids, and endue them with the moft arbitrary properties; give them a fubtility which enables them to pervade the pores of all bodies, and make them agitated with the moft unaccountable motions. But is not this to fet afide the real conftitution of things, and to fubflitute dreams in their place? Truth is fcarce attainable even by the fureft obfervations; and will fanciful conjectures ever come at it ? They who found their fpeculations on hypothefes, even though they argue from them regularly, according to the Atriftef laws of mechanics, may be faid to compofe an elegant and artful fable; but it is ftill only a fable.

Hypotifesis is more particularly applied in aftronomy to the feveral fyftems of the heavens; or the different ways in which different aftronomers have fuppofed the henvenly bodies to be ranged, moved, \&s.

The principal hypothefes are the Ptolemaic, Copernican, and Tyclonic. The Copernican is now become fo current, and is fo well warranted by obfervation, that the retainers thereto hold it injurious to call it an hypothefis. See Astronomi.

HYpOTIPOSIS. Sce Oratory, No 9 !.
HYPO'TRACHELION, in Architecture, is ufed for a little fricze in the Tufcan and Doric capital, between the aftragal and annulets; called alfo the colcrin and
gorgorin. The word is appited by fome authors in a mypozis more general fenfe, to the neck of any column, or that part of its capital below the aftragal.

HYPOX1S, a genus of plants belonging to the hexandria chefs, and in the natural msthod ranking uader the 1 oth order Coronaric. Sec Borsix Index.
HY'PSIS'TARI1, (formed from if:sos " higheR), a fect of heretics in the fourth century : thus called from the profeflion they made of worthipping the moll high God.
The doctrine of the Hypfiftarians was an afembiage of Paganifm, Judaifm, and Chriftianity. They adored the mol high God with the Chrittians; but they alfo revered fire and lamps with the keathens: and obferved the fabbath, and the dillinction of clean and unclean things with the Jews.

The Hypfiftarii bore a near refemblance to the Euchites, or Mafialians.
HYRCANIA, in Ancient Geography, a country of the farther Afia, lying to the fouth-eatt of the hare IIyrcanum or Ca/pumn ; with Media on the wrf, Parthia on the fouth, and Margiana on the eall. Famous for its tygers (Virgil) ; for its vines, figs, and olives, (Strabo).

Hyrcania, in Ancient Gcograshy, a town of Lydia, in the campus Hyrcanus, near Thyatira; fo called from colonifls brought from Hyicania, a country lying to the fouth of the Cafpian fea. The people called Myrcani Macedones, becaufe a mixed people (Piiny).-AAnother Hyrcania, the metropolis of the country called Hyrcania. 'Thought to be the Tape of Strabo, the Syrins of Polybius, the Zeudracarta of Arrian, and the Alaac of Ifidorus Characenus. - A third, a llrong place of Judea, built by Hyrcanus.

HYṢSOP. See Hyssopus.
Hidge-Hrssor. See Gratiola.
HY'SSOPUS, HYSSOP, a genus of plants belonging to the didyramia clafs. See Botany and Materia Mapica Index.

HYS'TERIC AFFLCTIOX, or Paffion, (Formed of is₹̧e " womb") ; a difeafe in women, called alfo fuffocation of the sworzb, and vulgarly fits of the moiker. It is a fafmodico-convulfive affection of the nervous fyftem, proceeding from the womb; for the lymptoms and cure of which, fee Medicise.

HYSTERON proteron, in Grammar and Rhetoric, a fpecies of the hyperbaten, wherein the proper order of conftruction is fo inverted, that the part of any fentence which fhould naturally come firt is placed laft: as in this of Terence, Valet et virut, for vivit et zralet; and in the foilowing of Virgil, Moriamur, 6o in media arma ruamus, for In media arma ruamus, bo moriamur.

HYSTRIX, or Porcupive, a genus of quadrupeds belonging to the order of glires. See Mmamalia Index.

I,or $i$, the ninth letter and third vowel of the a!1, phabet, is pronounced by throwing the breath fuddenly againt the palate, as it comes out of the larynx, with a fmall hollowing of the tongue, and nearly the fame opening of the lips as ini pronouncing $a$ or $c_{0}$. Its found raries: in fome words it is long, as high, mind, \&ce.; in others thort, as bid, hid, fin, \&c. ; in otbers, again, it is pronounced lilee $y$, as in collier, onion, ぶc.; and ia a few, it founds like ee, as in stachine, magazine, \&tc. No Englinh word ends in $i, e$ being either added to it , or elfe the $i$ turned into $y$.

But belides the vorvel, there is the jod conlonant; which, becaufe of its different pronuaciazion, has likewife a different form, thus J, $j$. In Englifh, it has the foft found of $g$; nor is ufed, but when $g$ foft is required before rowels, where $g$ is ulually hard : thus we fay, jack, jet, joint, \&c. inftead of gack, $5^{e t,} 5^{\circ i n}$, \&c. which would be contrary to the genius of the Englith language.

I, uled as a rumeral, fignines ouse, and ftands for fo many units as it is repeated times; thus I, one; II, two; I11, three. \&ie.; and when put before a higher numerat, it fuberacts itfelf, as IV, four, IX, nime, \&.c. But, when fet after it, fo many are added to the higher numeral as there are I's added : thus VI is $5+1$, or fix; MII, $5+2$, or feven; VIII, $5+3$, or eight. The ancient Ronians likewife ufed ID for 500 , CLD for 1003, IDD for 5000 , CCIDD for 10,000 . Farther than this, as Pliny obferves, they did not go in their notation; bur, when neceffary repeated the lat number, as CCCIOJO, CCCIOOD, for
 300,000 ; and fo on.

The ancients fometimes changed $i$ into ; decmmus for decimus; maxa, mars for maximus, \& c.

According to Plato, the vowel $i$ is proper to exprefs delicate but lumble things, as in this verfe in Virgil which abounds in $i$ 's, and is senerally admired :

## Accipiunt inimiclum imbrem, rimifque fatifcunt.

1 , ufed as an abbreviature, is often fubstituted for the whole word Jesus, of which it is the firf letter.

JABBOK, a brook on the other fide of the Jordan, the fpring whereof is in the mountains of Gilead. It $f_{A}$ lls into Jordan pretty near the fea of Tiberias, to the fouth of this fea. Neâr thin brook the patriatch Jacob wrefled with the angel (Gen. xxxii. 22). The Jabbok feparated the land of the Ammonites from the Gaulanites, and the territories of Og king of Ballam.

JABESH, or fabesh-gilend, was the name of a city, in the half tribe of Manaffeh, beyond Jordan. The feripture calls it generally Jabefl-Gilead, becaufe it lay in Gilead, at the foct of the mountains which go by this name. Eufebius places it fx miles from Pella, towards Gerafa; and confequently it muft be caftward of the fea of Tiberia.
JAB!RU. See Mycterta, Orsitho:ocy Inder.
JaELONSKi, Danifl Erxist, a learned Polini Protefa:t Civine, boen at Dantzick in 1660 . He became fucceifively min:ther of Magdebury, Iilia, Konisghterg, a:d Letẹin; and was at leng:h ecclefiafical
coun:fellor, and prefident of the acallemy of fciences at the later. He took great pains to effect an union between the Lutherans and Calvinills; and wrote Come Jack-Daw. worls which are in good citectu, particelarly Meditations on the origin of the Scriptures, \&e. He died in 1741.

Jablowsit, Theadore, counfellor of the court of Pruffia, and fecretary of the royal acacemy of fciences in Berlin, was allo a man of diflinguithed merit. He loved the fciences, and did them houour, without that ambition which is generally feen in men of learning; it was owing to this modefty that the greateft part of his works were publifitied without his wame. He publifhed, in 1741 , a French and German Dictionary; a Courfe of Morality, in 2713; a Dictionary of Arts andesciences, ${ }^{17} 21$; and tranilated Tacitus de moribus Germariorum into High Dutch, in 1724.

JABNE, in Ancient Geography, a town of Paleftive, near Joppa; called famina or Gammial, by the Greeks and Romans. In Johnua xv. it feems to be called jablneel; but in 2 Chron.x.vi. Gabre. It was taken froni the Philitines by Uzziah, who demolifhed its fortifications. Its port, called Yamniarum portus, lay between Joppa and Azotus.

JaCAVAR. See Alcedo, Qrxithology Inder.
JACCA, an ancient town of Spain, in the kingdone of Arragon, with a bilhop's fee, and a fort; feated on a river of the fame name among the mountains of Jac ca, which are part of the Pyrenees. W. Long. 0.10. N. Lat. $4^{2} .3^{6}$.

JACK, in mechanics, a well-known inltument of common ufe for raifing great iweights of any kind.

The common kitchen-jack is a compound, engise, where the weight is the power applied to overcome tine friction of the parts and the weight with which the fit is charged; and a heady and uniform mootion is obtained by means of the tly.

Jics, in the fea-langunge, a fort of tiag or culours, difplayed from a maft ereaed o: the cuter end of a fhip's bowfrit. In the Britih navy the jack is nothing more than a fmall union flag, compofed of the interfection of the red a:ld white crefies; but in mer-chant--thips this union is bordered with a red field. See the article Union:

Jack is uled alfo for a herfe or wooden frame to faw timber upon; for an inflrument to pull off a pair of boots; for a great leathern pitcher to carry drink in ; for a fmall bowi that ferves as a mark at the cxercife of bowling ; and for a young pike.

Fack-Flaz, in a thip, that is hoited up at the fprit-fail top-maft head.

Yack-Daw, the Englith name of a fpecies of corvus. See Corvus, Ormithology Indec:

This bird is yey mifchicvous to the firmer and gardener; and is of fich a thievilh difpafition, tbar he will carry away much more than he can malse ure of. There is a method of deftroying them by a kind of friugs much ufed in Fongland; and is fo wiefur, that it ouglat to be made univerfal.-A take of about five feet long is to he driven firmly iato the ground, and made fo fatt that it cannot move, and fo thary in

## J A G [20 〕 J A G

Jackall the point that the bird cannot fettle upon it. Within a foot of the top there mult be a bole bored through it, of three quarters of aia inch diameter; through this hole is to be pat a flick of about eight inches long ; then a horfe-hair fprisge or noofe is to be made fart to a thin hazel-wand, anid this brought up to the place where the thort flick is placed, and carried with it through the hole, the remainder being left open under that flick. The other end of the hazel rod is to be put through a hole in the Rake near the ground, and faftened there. The fake is to be planted among the jack-daw's food, and he will naturally be led to fettle on it ; but finding the point too tharp, he will defcend to the little crofs fich. This will fink with his weight, and the fringe will receive his leg, and hold him fart.
Jackall, in Zoology. See Canis, Mammalia Index.
JACOB, the fon of Iface and Rebekah, was born in the year of the world 2168, before Jefus Chrit 1836. The hiftory of this patriarch is given at large in the book of Genefis. He died in Egypt in the 147 th year of his age. Jofeph directed that the body fhould be embalmed, after the manner of the Egyptians; and there was a general mourning for him throughout Egypt for feventy days. After is, Joleph and bis brethren, accompanied with the principal men of E.gypt, carried him, with the king of Egypt's permifio:, to the burying-place of his fathers near Hebron, where his wife Leah had been interred. When they were come into the land of Canaan, they mourned for him again feven days; upon which occafion the place where they ftaid was called Abelmifraim, or the mourning of the Egyptians.

Jacob Ben Hajim, a rabbi famous for the collection of the Maforah in 1525 ; together with the text of the bible, the Chaldaic paraphrafe, and Rabbinical commentarics.

Jacob, Ben Naphtali, a famous rabbi of the $5^{\text {th }}$ century: he was one of the principal mafforets, and bred at the fchool of Tiberias in Paleftine with Ben Afer, another principal mafforet. The invention of points in Hebrew to ferve for vowels, and of accents to facilitate the reading of the language, are afcribed to thefe two rabbis; and faid to be done in an affembly of the Jews teeld at Tiberias, A. D. 476.

JACOBINE Monks, the fame with Do:minicans.
Jacomezs, the name aflumed by a party or club at the beginning of the French revolution, compofed of nembers of the national aflembly. This club held its meetings in the hall belonging to the Jacobin friars, from which it derived its name. For an account of the views and influence of the Jacobin club in the French sevolution, fee France.

JACOBITES, a term of reproaclr beftowed on the perfons who, vindicating the doctrines of paffive obedience and non-refiftance with refpect to the arbirrary proceedings of princes, difavow the revolution in 1688, and affert the fuppofed rights, and adhere to the interefts, of the late abdicated King James and his family.

Jacobites, in cluurch hiftory, a fect of Chriftians in Syria and Mefopotamia ; fo called, either from Jacob a Syria: who lived in the reign of the emperor Mauritius, or from one Jacob a monk who flourihed in the year 550 .

The Jacobites are of tiwo fects, fome following the rites of the Latin church, and others continuing feparated from the church of Romc. There is alfo a divifion anong the latter, who have two rival patriarchs. As to their belief, they hold but one nature in Jefus Chrift ; with refpect to purgatory and prayers for the dead, they are of the fame opinion with the Greeks and other caftern Chrittians: they confecrate unleavened bread at the eucharift, and are againft confeffion, believing that it is not of divine inflitution.

JACOBUS, a gold coin, worth 25 fhillings; fo called from King James I. of England, in whofe reign it was ftruck. See Cons.

We ufually diftinguith two kinds of Yacobus, the old and the new; the former valued at 25 thillings, weighing fix penny-weights ten grains; the latter, called allo Carolus, valued at 23 faillings, in weight five pennyweights twenty grains.

JACOUIN1A, a genus of plants belonging to the hexandria clafs, and in the natural method ranking with thofe of which the order is doubtful. Sec Botany Index.

JACULATOR, or shooting-fish. See Chetodos, ichthyology Index.

JADDESSES is the name of an inferior order of priefts in Ceylon, who have the care of the chapels appropriated to the genii, who form a third order of gods among thefe idolaters. Thefe priefts are applied to by the people in a time of difeafe or calamity, who offer a cock on their behalf to appeafe the anger of the dæmons.

Jade-stone, or Lapis nephriticus, a fpecies of Mineral. See Mineralogy Index.

JAFFA, an ancient town of Afia in Palenine, formerly called Yoppa. Its former grandeur is now greatly diminithed. It is fituated 50 miles north-weft of Jerufalem, while others make it only 27 , and 100 from the town of Acre. It was taken by the French under Bonaparte, in February 1799, but afterwards retaken and fortified. E. Long. 35.e. N. Lat. 32. 16.

JAFFATEEN IsLands, the name of four illands in the Red fea, vifited by Mr Bruce in his late travels. They are joined together by thoals or funk rocks; are crooked or bent like half a bow ; and are dangerous for flips in the night-time, becaufe there feems to be a pallage between them, to which, while the pilots are paying attention, they neglect two fnall fank rocks which lie almoft in the middle of the entrance in deep water.

JAFNAPATAN, a fea-port town, feated at the north-eaft end of the ifland of Ceylon in the Eaft Indies. The Dutch took it from the Portuguefe in 1658, and have continued in the poffefion of it lince that time. They export from thence great quantities of tobacco, and fome elephants, which are accounted the moft docile of any in the whole world. E. Long. 80. 25. N. Lat. 9 30.

JAGENDOKF, a town and caftle of Silefia, capital of a province of the fame name, feated on the river Oppa. E. Long. ${ }^{17}$. 47 . N. Lat. 50. 4 -

JAGGERNAU , a black pyramidal fone worflipred by the Gentoos, who pretend that it fell from heaven, or was miraculoufly prefented on the place where there temple ftands. There are many other idols of this figure in India; which, however, are alt

Jacobus
raggernaut but accounted copies from the Jaggernaut. According to the beft information Mrr Grofe could obtain, this ftone is meant to reprefent the power prefiding over univerfal generation, which they attribute to the genial heat and influence of the fun acting in fubordination to it. Domeftic idols of the form of the Jaggernaut, and diftinguithed by the fame name, are made by the Gentoos. Thefe are niched up in a kind of triumplial car, decorated with gilding and tinfel; which for fome days they keep in the beft apartment in their houfe. During this time their devotion confifts in exhibiting the moft obfcene poftures, and acting all manner of lafcivioufnefs, in light as it were of the idol, and as the moft acceptable mode of worthip to that deity it reprefents; after which they carry it in its gilded car in proceffion to the Ganges, and throw in all together as an acknowledgment to that river of its congenial fertilization with that of the fun. Formerly this machime was decorated with jewels and other expenfive ornaments; but the Indians are now become lefs extravagant, as they found that the Moors and Chriftians, watching the places where they threw in their idols, dived for them fur the fake of the jewels with which they were adorned.

Our author conjectures, that this pyramidal form of the Gentoo idol was originally taken from that of flame, which always inclines to point upwards. From this In lian deity he fuppofes the thape of the Paphian Venus to have been derived, for which Tacitus could not account. This image had nothing of the human form in it, but rofe orbicularly from a broad batis, and in the nature of a race goal tapering to a narrow conves a-top; which is exactly the figure of the idnl in $\ln$ dia, confecrated to fuch an office as that heathen deity was fuppofed to prefide over, and to which, on the borders of the Ganges efpecially, the Gentoo virgins are brought to undergo a kind of fuperficial defloration be. fore they are prefented to their hulbands.

JAGHIRE, an allignment made in Bengal by an im. perial grant upon the revenue of any diftrit, to defray civil or military charges, penfions, gratuities, \&c.

JAGHIREDER, the holder of a jaghire.
JAGO, Richard, an ingenious poet, was vicar of Snitterfield in Warwickflire, and rector of Kimcote in Leicetterthire. He was the intimate friend and correIpondent of Mr Shenitone, contemporary with him at Oxford, and, it is believed, his fchoolfellow; was of Univerfity college; took the degree of M. A.July 9.1739; was author of feveral poens in the 4 th and 5 th volumes of Dodiley's Poems; pullihed a fermon, in 1755 , on the Caufes of Impenitence confidered, preached May 4 . ${ }^{1755}$, at Harbury in Warwick fhire, where he was vi. car, on occation of a converfation faid to have palled between one of the inhabitants and an apparition in the church-yard there; wrote "Edge-hill," a poem, for which he obtained a large fubfeription in 1767; and was allo author of "Labour and Genius," ${ }^{7} 768,4 t 0$; of "The Blarkbirds," a beautiful elegy in the Adventurer ; and of many other ingenious performances. He died May 28. 1781.

St $Y_{A G O}$, a large river of South America, which rifes in the ardience of Quits in Peru. It is navigable; and falls into the Sou.h fea, after having watered a fertile country abounding in cotton-trees, and inhabited by wild Americans.

St $\mathrm{y}_{\mathrm{AGO}}$, the larget, mof populous, and fertice of the Cape Verd iflands, on the coatt of $A$ frica, and the refidence of the Portuguefe viceroy. It lies about 13 miles eaftward f:om the iflond of Mayo, and abounds with high barren mountains; but the air, in the rainy feafon, is very unwholefome to Atrangers. Its produce is fugar, cotton, wine, and fome cxcellent fruits. The animals are black cattle, horfes, affes, deer, goats, h.gs, civet-cats, and fome very pretty green monkeys with black faces.

Sir George Staunton, in the account which he gives of this illand, obferves, that it is liable to long and exceffive droughts, for which it is perhaps impolitible to affign any philofophical caufe. It was in a fate of abfolute famine at the end of 1792 , when vifited by the enbafly to China, and the waters of the rivers were almof dried up. The furface of the earth was devoid of herbage, the cattle had nearly all perifhed, as much from the want of food as from drought.
" What were the uncommon circumftances (Cays Sir George) that took place in the atmofphere of that part of Africa to which the Cape de Verd illands lie contiguous, or in the valt expanfe of continent extending to the ealt behind it, and from which this direful effect mult bave proceeded (as they happened where no man of fience exifted to obferve or to record them), will remain unknown, nor is theory bold enough to fupply the place of obfervation. Whatever was the caufe which thus arrefted the bountiful hand of nature, by drawing away the fources of fertility, it was obfervable, that fome few trees and plants preferved their luxuriance, indicating that they flill could extract from the arid earth whatever portion of humidity it was neceflary to derive from thence for the purpofe of vegetable lifc, though it was denied to others."

Befide palm trees, frequently found verdant amidat burning faids, nothing could be more rich in flavour, or abound more with milky though corrofive juice, than the afclepias gigantea, growing plentifully without culture, but undifturbed. The phyfic nut tree appeared as if its perpetuity was nos to be affected by any drought. Some fecies of mimofa, or fenfitive plant, were moft common, and did not appear to languill.
But the annual produce of agriculture had almoft wholly difappeared, and the fugar canes had little refemblance to any thing like vegctation. Yet vegetation quickly revived whenever any moiture could be conveyed through the foil.
The relidence of the viceroy is reprefented by Sir George as a hamlet, confifing of 100 fimall dwelings, only one flory high, fattered nearly a mile in length, and one-third as much in breadth. Not being commanded by any eminence, it was a fituation which admitted of defence, yet the fort was nearly in ruius, and the few guns mounted on it were moftly honey-combed. Amidit the ruins of St Jago, was found a Portuguefe, to whom one of the party was recommended, by whom they were hofpitably received, and treated with every fpecies of tropical fruits from his garden.

St $\mathrm{F}_{160 \text {, a handfore and confiderable town of South }}$ America, the capital of Chili, with a good harbour,' a bilhop's fee, and a royal audience. It is feaied in a large and beautiful plain, abounding with all the ncceffaries of life, at the foot of the Cordilleras, on the river Mapocho, which runs acrofs it from calt to weft.

Here

Jnes IHere are feveral crnals and a dyke, by means of which
Ja'erru: they water the gardens and cool the frects.- It is very m.uch fubject to earthquakes. W. Long. 69. 35. S.

Lat. 33.40.

St Yago de Cuta, a town in North America, fituated on the fouthern coalt of the inland of Cuba, in the bottom of a bay, with a good harbour, and on a river of the frme name. W. Long. 76. 44. N. Lat. 20. 0.

Itago de los Cazalleros, a tomn of America, and one of the principal of the illand of Hifpaniola. It is feated on the river Yague, in a fertile sil, but bad air. W. Long. T: 5: N. Lat. 19. 40.

St Yico del Jintero, a town of South America, one of the mott confiderable of Tucuman, and the wfual refidence of the inquilitor of the province. It is feated on a large river, in a flat country, where the:e is game, tygers, guanacos, commonly called camelBeep, \& \& c.
jisco de la Viga, otherwife called Spanib-town, is the capital of the illand of Jamaica, in the IVeft Indies; and thands in $18^{\circ} 1^{\prime}$ north latitude, and $76^{\circ} 45^{\prime}$ welt longitude. It is about a mile in length, and little more than a guarter of a mile in breadth, and contains bewheen 500 and 600 loufes, with about 4000 inhabitants of a!l colours and denominations. This town is fituated in a delightful plain ca the banks of the Rio Cobre, 13 miles from Kingfon, and io from Port Royal. It is the refidence of the commander in chief: and here the fuprenee court of judicature is held, four times in the year, viz. on the lail Tuefilays of February, May, Auguf, and November, and fits three weeks.St Jago de la Vega is the commy-town of Middiefex, and belongs to the parifh of St Catharine; in which parih there are if fugar-plantations, 108 pens, and other fettlements, and about 10,000 flaves.

JAGUAR; or IAQUAR, a name given to the Brafilian ounce, a feccies of Felis. See Felis, Mammama Iniler.

IAGUEFR, in Eaft India affiirs, any penfion from the Grand Mogul, or king of Delhi; generally fuch as are affigned for military fervices.

JAGUEERDAR, the bolder or polfeffor of a jagueer. It comes from three Perfian words, $\mathcal{F a}$, "a place;" gucriffun, " to take ;" and daßsun," to hold ;" quefti, "a place-holder or penfioner." In the times of the Mogul empire, all the great officers of the court, called omrahs, were allowed jagueers, either in lands of which they collceted the revenues, or athignments upoa thie revenues for fipecified fums, payable by the lord-lieutenant of a provirice : which funs were for tl eir maintenance, and the fupport of fuch troops as they were necellitated to bring into the feld when demanded by the emperor, as the condition of their jagusers, whicl sere always revokable at pleafure.
i. 1 LI --FF: MER, a very dingerous dillemper of the contagions kind, arifing from the putrefeent difpoftion of the Elond and juices. See Medicine Index.

A11. '11, the root of a fecies of convolvulus or bind weed. Soc Convonueruy, Bornivy and Matebla Mrnita Inder.

JALFADUS, in antiquity, a kind of mournful fong, 2 frd upen eccalion of death, or any otler afiching accirest. Hence the Greek proverbs had their original,

 ranked among jalernutes.
JALOFFS, or Yalorfs, are a watlike people, inhabiting molt of that pari of Africa, lying between Scnegal and the Mandingo Ilates on the Gambia. Their lips, arcording to Mr: Park, are not to protuberant as thofe of the generality of Africans; and though their thin is of the deepell black, they are efteened by the white traders as the nooff fightly of the negroes in that part of the continent. They are divided into feveral independent R.ates, and more refemble the Mandingoes than any other nation in their manners and government, but much exceed then in the manufacture of cotton cloth, fpining the wool to a finer thiead, weaving it in a broader loom, and dyeing it of a better colour. They make excell=nt foap, by boiling ground nuts in water, and then adding a ley of wood athes. They likewife manufacture very good iron, which they carry to Bandoce to exchange for falt. Their language, it is faid, is copious ard figniticant, and is frequent!y learned by Europeans trading to Senegal.

A generous difpofition, accerding to the teftimony of Mr Park, is faid to diftinguilh them above the generality of favages; they know kow to return an aft oí Kindnefs thewn them by others in diftrefs, and their conduct towards their enemies; in many inflances, is faid to be worthy of imitation.

JAMADAR, an officer of forfe or foot, in Hincio ftan. Alfo the head or fuperintendant of the Pcons in: the Sewaury or train of any great man.
JAMAACA, anilland of the Wett Indies, the largef of the Antilles, lying between $17^{\circ}$ and $19^{\circ} \mathrm{N}$. Lat: and between $76^{\circ}$ and $79^{\circ} \mathrm{W}$. Long. ; in length near 170 miles, and about 60 in breadth. It approaches in its figure to an oval. The windward palfage right before it hath the illand of Cuba on the weft, and Hippaniola on the eaft, and is about 20 leagues in breadth.
This illand was difcovered by Admiral Chriflopher Columbus in his fecond voyage, who landed upon it May 5.I 494 ; and was fo much charmed with it, as always to prefer it to the reft of the iflands: in confequence of which, his fon chofe it for his dukedom. It was fettled by Juan d'Efguivel, A. D. 15c9, who buit the town, whicl, from the place of his birth, he called Seville, and in leagues farther to the eaft food Mellla. Orifton was on the fouth fide of the iflaad, feated on what is now called Blue Fields River. All thefe are gone to decay ; but St Jago, now Spanifh-tow, is fill the capital. The Spaniards held this country 160 years, and in their time the principal commodity was cacao; they had an immenfe flock of horfes, afies, and mules, and prodigious quartities of cattle. The Englif1 landed liere under Penn and Venables, May 11. 165t, anit quickly reduced the ifland. Cacao was allo iheir principal commodity till the old trees decayed, and the new ones did not thrive; and then the planters from Barbadoes introduced fugar-canes, which hath been the great flaple cyer fince.

The profpect of this inand from the fea, by reafon of its confant verdure, and inany fair and sate bays, is wonderfully pleafant. The coan, and for fome miles within, the land is low; but removing farther, it rifes and lecomes hilly. The whole ille is divided by a ridge of mountains running eaft and weft, fome rifing

Tamaica. to a great height: and thefe are compofed of rock and a sery hard clay ; through which, however, the rains that fall inceexancly upon them have worn long and deep caviiies, which they call gullics. There moma. tains, huwever, are far from being unpleafant, as they are crowned even to their fumnits with a varicty of fine trees. There are alfo about a hundred rivers that ifluz fruan then on both files: and, though nore of them are narigible for any thing but canoes, are both pleafing and profiable in many cother scfipeas. The climate, like that of all courtrics between the tropics, is very warm towards the fea, and in marlly places unhealthy ; but in more elevated fituntions, cooler ; and, where feople live temperately, to the full as wholefome as in any pari of the Weff Indies. The rains fall heasy for about a formishit in the sonths of $\mathrm{MI}_{\mathrm{a}} \mathrm{y}$ and Oc . tober: and, as they are the caufe of fertility, are fyled feaforis. Th under is pretty frequent, and fometimes thowers of hail: but ice and frowr are never feen, altheugh oat the tops of the mouotains, and at no very great height, the air is exseedingly cold.
The rioft eaftern parts of this ridge are known urder the name of the Blue Mountains. This great chain of rugged rocks detends the fouth fide of the illand from thoie boifterous north-we?t winds, which miglt be fatal 20 the: produze. Their freams, though $\mathrm{fm}_{\mathrm{m}} \boldsymbol{\bullet}$, fupply the inkibitants with good water, which is a great blef. fing, as their wells are generally brackilh. The Spaniards were perfuaded that thefe liills abounted with metals: but we do not find that they wrought any mines; or if they did, it was only copper, of which they faid the bells in the church of St Jago were made. They have fereral hot fprings, which have done great cures. The clinate was certainly more temperate before the great earthquake; and the illand was fuppofed to be out of the reach of hurricanes, which fince that time it hath feverely felt. The heat, howerer, is very much :empered by land and fea brecezes; and it is afierted, that the hoteft time of the day is about eight is the morning. In the night, the wind blows fro:n the land on all fides, fo that no fhips can then enter theit paris.

In an inland fo large as this, which contains above five millions of acres, it may be very reafonably conreived that there a:e great varicty of Soils. Some of theft are deep, black, and rich, and mixed with a kind of potters earth ; others flatlow and fandy; and fome of a middle nature. Theee are many farannahs, or wide plains, without flones, in which the native Indians had lusuriant crops of maize, which the Spaniards turied into meadows, and kept in them prodigious herds of cattle. Some of theefe favannahs are to be met with even amonglt the mourtains. All thefe different foils may be juntly pronounced fertile, as they would certainly be found, if tolerably cultivated, and applied to proper purpofes. A fulficient proof of this will arife from a very curfory reviess of the viatural and artiacial produce of this fpacious country.

It abounds in maize, pulfe, vegetables of all kinds, meeadows of ine grafs, a variety of beauiful flowcrs. and as great a rariety of oranges, lemons, cittons, and cther rich fruits. Uieful animals theee are of all forts, horfes, aifes, mules, black cattle of a large fize, and ibeep, the feen of which is we!l tafed, though thcir

Wool is laairy and bad. Here are alfo gonts and h:ons f-nince. in great plenty; fea and tiver filh; wid, tamc, and -water-forel. Amongt other commodities of great value, they have the fugar-cane, cacao, indigo, fimento, cotoon, ginger, and cuffee ; trees for timber and other uifes, fuch as malhogany, manchisteel, white wood which no worra will touch, cedar, olves, and many more. Befides thefe, they have fuftick, red wood, and various other materiais for dyeing. To thefe we my add a multiude of valuable druys, fuch as gudizcum, china, farfaparilla, caflia, tariarinds, va:eeliss, and the prickle-pear or opuntia, which prolluces the cochincai; with no inconniderable number of odurifcrous gums. Near the coaft they have falt-ponsis, from which at one time they fuplied their own confurption, and might certainly make any quantity they pleafed.

As this illand abounds with rich conmodites, it is happy likemife in having a number of fire and fife ports. Point Morant, the eaften extremity of the illand, hath a fair and commodious baj. Palining on to the fouth, there is Port Royal : on a weck of knd which forms one fide of it, there flood onct the fairectit town in the illand ; and the harbour is as fine a one as can be wifhed, capable of holding a thoufand large veffels, and fill the flation of our fquadron. Oid Harbour is alio a convenient port, fo is Maccary Bay; and there are at lealt twelve more ketwcen this and the weffern extremity, which is Point Negriilo, where our mhips of war lie when there is a war with Spain. On the north fide there is Orange bay, Cold harbecur, Rio Novo, Montego bay, Pert Antorio, one of the finelt in the iffand, and feveral others. The northweft winds, which fometines blow furiouly on this coalt, render the country on that fide lefs fr for canes, but pimento thrives wonderfully; and certainly many other flaples might be railed in fimall plantations, which are frequent in Barbadoes, and might be very advantageous here in many refpefs.
The torwn of Port Royal ftood on a point of land running far out into the fea, narro:., fandy, and ircapable of producing any thing. Yet the excellence of the port, the conseuience of having flips of feven hundred tons coming clofe up to theit wharfs, and other advantages, gradually attracted inhablitants in fuch a namner, that though many of thcir habitations we:ere built on piles, there were near two thoufand houfcs in the town in its molt hourilling flate, and which let at high rents. The earthquake by which it was overthrown happened on the $\boldsymbol{7}$ th of June 1692 , and numbers of people perified in it. This earthquake was folliowed by an epidemic difeafe, of which upwards of three thouland died: yet the place was rebuilt; bitt the greatel part was reduced to athes by a fre that happened on the gith of Januaty 1703, and thers the inbabitants removed moflly to Kinghtou. It was, howerer, rebuilt for the third time; and was ifing toinards its former grandeur, wien it was overwhellwed by the fea, Augulf 28. 1722. Thete is, notwithfanding, a fmall town there at this day. 1furricanes fuce that time have often happened, and occaliuned testible devaliations.
The illand is divided into three counties, Middlefes, Surry, and Cornvall; containing 20 parihles, over cach of which prefides a magifrate fiyled a cuffus; but

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Janara. theie parithes in point of fize are a kind of handreds. The whole contain 36 towns and villages, 18 churches and chapels, and about 23,000 white inhabitants.

The adminit?ration of public affairs is by a governor and council of royal appointment, and the reprefentatives of the people in the lower houfe of aflembly. They meet at Spanifh-town, and things are conducted with great order and dignity. The lieutenant-governor and commander in chief has 50001 . currency, or 35711 . S5. 6 3. de ferling befides which, he has a houfe in Spanilh-town, a pen or a farm adjoining, and a polink or mountain for provifions: a fecretary, an under-fecretary, and a domeltic chaplain.

The honourable the council confifts of a prefident and 10 members; with a clerk, at $2 \% 01$. a chaplain 1001 , uther of the black rod and meffenger 2501 .

The honourable the affembly confirts of 43 members, one of whom is chofen fpeaker. To this atiembly belong a clerk, with roool. falary; a chaplain, 1501. ; melfenger, 7001. ; deputy, 1 iol. ; and printer, 2001.

The number of members returned by each parith and county are, for Middlefex. 17 , wiz. St Catharine 3, St Dorothy 2, St John 2, St Thomas in the Vale 2, Clarendon 2, Vere 2, St Mary 2, St Ann 2 : For Surry 16, viz. Kingfton 3, Port Royal 3, St Andrew 2, St David 2, St Thomas in the Ealt 2, Portland 2, St George 2: For Cornwall 10. viz. St Elizabeth 2, Weftmoreland 2, Hanover 2, St James 2, Trelariney 2.

The ligh court of chancery confifts of the chancellor (governor for the time being), 25 malters in ordinary, and 20 mafters extraordinary; a regifter, and clerk of the patents; ferjeant at arms, and mace-bearer. The court of vice admiralty has a fole judge, judge furrogate, and commiffary, king's advocate, principal regiter, marfhal, and a deputy-marihal. The court of ordinary, confifts of the ordinary (governor for the time being), and a clerk. The fupreme court of judicature bas a chief juftice, 1201 . and 16 affiftant judges; at-torney-general, 4001.; clerk of the court, 1001. clerk of the crown, 3501 .; folicitor for the crown: 33 commiffioners for taking affidavits; a provoft-mar-ihal-general, and eight deputies; 18 barrifters, befides the attorney-general and advocate-general ; and upward of 120 practifing attorneys at law.

The commerce of Jamaica is very confiderable, not only with all parts of Great Britain and Ireland, but with Africa, North and South America, the Weft In-
dia illands, and the Spanifh main. The fhips annually $\underbrace{\text { Jamaica }}$ employed are upwards of 500 fail.

The following account of the exports of this illand in $\mathbf{1 7 7 0}$, as given by Abbé Raynal, but which in feveral particulars appears to be under-rated, will contribute more than all that hath been faid, to fhow the importance of Jamaica. They confifted in 2249 bales of cotton, which at 10 pounds per bale, the price in the ifland, amounts to 22,4901 .; 1873 hundred weight of coffee, at three pounds five fhillings per hundred, $60881 . ; 2753$ bags of ginger, at two pounds five faillings per bag, 6194l.; 22 II hides, at feven hillings per hide, $773^{1 .}$; 16,475 puncheons of rum, at 101. pcr puncleon, 164,7501. Mahogany, 15,282 pieces and 8500 feet, 50,0001 . Of pimento, $2,089,734$ pounds weight, $52,243^{1}$. Sugar, 57,675 hogheads, $6_{125}$ tierces, 52 barrels, at feventeen pounds ten thillings per hoghead, twelve pounds per tierce, and four pounds per barrel, amounting in the whole to 1,086,6201. Sarfaparilla, $20 ;$ bags, at ten pounds per bag, 22501 . Exports to Great Britain and Ireland, 1,391,2101. To North America, 146,32 $\boldsymbol{q}^{1}$. To the other illands, 5951. Total of the exports, $1,538,7301$.
The following is a general view of the property and chief produce of the whole illand in 1786, as prefixed by Mr Beckford to his defcriptive account of Ja. maica.

| Counties. | Sugar <br> Efates. | Other <br> Settle- <br> ments. | Slaves. | Produce <br> Hhds. of <br> Sugar. | Cattle. |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Middlefex | 323 | 917 | 87100 | 31500 | 75000 |
| Surry | 350 | 540 | 75600 | 34900 | 80000 |
| Cornwall | 388 | 561 | 90000 | 39000 | 69500 |
| Total | 1061 | 2018 | 255700 | $\mathbf{1 0 5 4 0 0}$ | 224500 |

It thould be here obferved, that where two hogheads of fugar are made, there is at leaft one puncheon of rum; but the proportion has been of late years more confiderable: the quantity of the latter will therefore be 52,700 puncheons.

A comparative view between the years 1768 and 1786 .

| Sugar Eftates <br> Sugar Hhds. | Middlefex <br> in |  | Surry <br> in |  | Cornvall in |  | $\begin{aligned} & \text { Total in } \\ & 1768 \mid{ }_{7786} \end{aligned}$ |  | $\left.\\| \begin{array}{c} \text { Amount } \\ \text { of } \\ \text { Increafe. } \end{array}\right\}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1768 | 1786 | ${ }_{17} 78$ | 1786 |  | 1786 |  |  |  |
|  | 239 |  |  |  |  | 388 |  |  |  |
|  | 2405 | 31 | 15010 | 349 | 29100 | 39000 | 68 | 5 | 37240 |
|  |  | 87100 | 39542 | 75600 | 60614 | 00 | 166900 |  | 88800 |
| Ca | 59510 | 75000 | 21465 | 800 | 54775 | 69500 | 13575 | , | 887 |

Jambi Fom the above fcherne it appears, how confiderable has been the increafe of fugar-eftates, and confequently of produce of negroes and cattle in eighteen years : and in the fame porticn of time (it is faid), if proper encouragement were given, they might be aaginerited in a threefold proportion.

The common valuation of an eitate in Jamaica is as fullows:
Cane land (the canes upon it valued
feparately) at
Plants
Cane land, in ratoons and young plants,
Patlure land
Wood land
Wrovifions
Negroes
If a planter would with to leafe his eftate for a number of years, his income would be large if he could get only iod. fterling a day for his negroes (the lofs made good), without requi:ing any thing for his land or works.

JAMBI, or JAMBrs, a fea-port town sud fmall kingdom of Afia, on the eaftern coaft of the ifland of Sumatra. It is a trading place. The Dutch have a fort here; and export pepper from thence, with the beft fort of canes. E. Long. 105.55 . S. Lat. O. 30.

JAMBIA ricus. See Yambo.
IAMBIC, in ancient poetry, a fort of verfe, fo called from its conifting either wholly, or in great part, of jambus's. See IAnbus.

Ruddiman makes two kinds of iambic, siz. dimeter and trimeter ; the former containing four feet, and the latter fix. And as to the variety of their feet, they confift wholly of iambus's, as in the two following verfes of Horace :

$$
\begin{array}{llllll}
1 & 2 & 3 & 4 & 5 & 6
\end{array}
$$

Dim. Inar $\mid$ /it at $/$ nus $\mid$.uss
Trim. Suis|ơ $\left|\mid p \int a\right.$ Ro|ma ivivibus'ruit.
Or, a dactylus, fpondeus, anapeftus, and fometimes tribrachys, obtain in the odd places; and the tribrachys allo in the even places, excepting the laft. Fxamples of all which may be feen in Horace; as,

Dimeter.


Trimeter.
Qù̀ quò /ccle' Лi rui|ıis|auticur dex|teris. Prius|que cal lumfildet in ferius|mari. Alici|bus al|gue canilbus homi|cid' He|çorem. Pavidum|que lepolr" aut ad|venam laqueo|gruem.
JAMBLICUS, the name of two celebrated Platonic philofophers, one of whom was of Colchis, and the other of Apamea in Syria. The firlt, whom Julian equals to Plato, was the difciple of Anatolius and Iorphyry, and died under the reign of the emperor Vol. XI. Part K .

Conflantine.-The fecond alfo enjoyed great reputa- Janimitio tion. Julian wrote feveral letters to him, and it is $r$ faid he was poifoned under the reign of Valens.-It is not known to which of the two we oucht to attribute Jimes the works we have in Greek under the name of Jamblicus, viz. 1. The hiftory of the life of Pythagoras, and the fect of the Pythagoreans. 2. An exhortation to the fludy of philofophy. 3. A piece againit Porphyry's letter on the mylteries of the Egyptians.

JAMBOLIFERA, a genus of plants, belonging to the oftandria clas; and in the natural method ranking with thofe of which the order is doubtful. Sce BoThNy Index.

IAMISUS, in the Greek and Latin profody, a poctical foot, confifting of a thort fyllable followed by a long one; as in

Sylfaba longa brevi fubjecta qrocatur iambus, as Horace exprelles it; who alfo calls the iambus a fwift, rapid foot, pes crius.

The word, according to fome, took its rife from Iambus, the fon of Pan and Echo, who invented this foot ; or, perhaps, who only ufed tharp biting expreffons to Ceres, when afficted for the death of Proferpine. Others rather derive it from the Greek vos, venenum " poifon;" or from ،auai乡"u maledico, "I rail, or revile;" becaufe the verfes compofed of ian is's were at firfo only ufed in fatire.

JAMES, St, called the Greater, the fon of Zebedee, and the brother of John the evangelit, was borr at Bethfaida, in Galilee. He was called to be an apofle, together with St John, as they were mending their nets with their father Zebedee, who was a fifherman ; when Chrilt gave them the name of Boonerges, or Sons of Thunder. They then followed Chrif, were witneffes with St Peter of the transfiguration on Mount Tabor, and accompanied our Lord in the garden of olives. It is believed that St James firf preached the gofpel to the difperfed Jews; and afterwards returned to Judea, where he preached at Jerufalem, when the Jews raifed up Herod Agrippa again! him, who put him to a cruel death about the year 44. Thus St James was the firt of the apoitles who fuffered martyrdom. St Clement of Alexandria relates, that his accufer was fo ftruck with his conftancy, that he became converted and fuffered with him. There is a magnificent church at Jerufalem which bears the name of $S_{\ell}$ James, and belongs to the Armenians. The Spaniards pretend, that they had St James for their apoftle, and boaft of poffeffing his body; but Baronius, in his Annals, refutes their pretenfions.

James, St, called the Lefs, an apofle, the brother of Jude, and the fon of Cleophas and Mary the filter of the mother of our Lord, is called in Scripture the Juft, and the bro:her of Jefus, who appeared to him in particular after his refurrection. He was the firf bifhop of lerufalem, when Annauias II. high pricft of the Jews, caufed him to be condemned, and delivered him into the hands of the people and the Pharifees, who threw him down from the lleps of the temple, when a fuller dafhed out his brains with a club, about the year 62. His life was fo holy, that Jofephus con-
fiders

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James. fiders the ruin of Jerufalem as a punishment inflicted on that city for his death. He was the author of the epifle which bears his name.

St James of the Sword, (San Iago del Efpada), a military order in Spain, inftituted in 1170 , under the reign of Ferdinand II. king of Leon and Gallicia. Its end was to put a flop to the incurfions of the Moors; three knights obliging themfelves by a vow to fecure the roads. An union was propofed and agreed to in II 70 between thee and the canons of St Eloy; and the order was confirmed by the pope in IIT5. The higheft dignity in that order is that of grand matter, which has been united to the crown of Spain. The knights are obliged to make proof of their deferent from families that have been noble for four generations on both fides; they molt alfo make it appear, that their faid ancelfors have neither been Jews, Saracens, nor heretics; nor even to have been called in queftion by the inquifition. The novices are obliged to ferve fix months in the galleys, and to live a month in a monaftery. Heretofore they were truly religious, and took a vow of ceIibacy; but Alexander III. gave them a permifion to marry. They now make no vows but of poverty, obsdience, and conjugal fidelity; to which, fence the year 1652 , they have added that of defending the immaculate conception of the holy Virgin. 'Their habit is a white cloak, with a red crofs on the breath. Thus is efteemed the molt considerable of all the military order in Spain: the king carefully preferves the office of grand matter in his own family, on account of the rich revenues and offices, whereof it gives him the ditpofal. The number of knights is much greater now than formerly, all the grandees choofing rather to be received into this than into the order of the golden fleece; inafnuch as this puts them in a fair way of attraining to commands, and gives them many confiderable privileges in all the provinces of Spain, but eff P ecially in Catalonia.

James, the name of feveral kings of Scotland and of Great Britain. See (Iffories of) Scotland and Britain.

JAMES I. King of Scotland in 1423, the frit of the houfe of Stuart, was not only the mont learned hing, but the molt learned man, of the age in which he fiourilhed. This ingenious and amiable prince fell into the hands of the enemies of his country in his tender youth, when he was lying from the fares of his unnatural ambitious uncle, who governed his domiunions, and was fufpected of defigns againft his life. Having fecretly embarked for France, the hip was taken by an Englith privateer off Flamborough-head; and the prince and his attendants (among whom was the earl of Orkney) were confined in a neighbouring calla until they were font to London. See (Hifory of) Scotland.
'The king of England knew the value of the prize he had obtained, and kept it with the molt anxious care. The prince was conducted to the 'Tower of London immediately after he was feized, April 12. ADD. 1405 , in the $13^{\text {th }}$ year of his age; and there kept a clofe prifoner till June 10. A. D. I407, when he was removed to the cattle of Nottingham, from whence he was brought back to the Tower, March i. A. D. $14^{1}$, and there confined till Augult 3. in the fans year, when he was conveyed to the cantle of

























































Windfor, where he was detained till the fummer of A. D. 1417 ; when Henry V. for political reafons, carried him with him into France in his fecond expe-






James. $\xrightarrow{-\infty}$




$\square$





\footnotetext{

































lib. 16.c. 18.





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[^1][^2]
 John Haw.
Kine, vol. it$+2$ -




$\qquad$

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## 1 A M

James.
do, the prince of mufecians of our age, introduced fuch a dityle of modulation, that other mulicians yiehled the preference to him; and all fingers and players on Ifringed inftuments, laying aide that of others, everywhere embraced his $\ddagger$. All the lovers, therefore, of Italian or Scotch muic, are much indebted to the admirable genius of King James l. who, in the gloom and folimede of a prifon, invented a new kind of mufic, plaintive indeed, and fuited to his fituation, but at the fame time fo fweet and foothing, that it hath given plealure to millions in every fucceeding age.

As lames I. of Scotland was one of the molt accomplilied princes that ever filled a throne, he was alfo one of the mot unfortunate. After fpenciing almoft 20 years in captivity, and encountering many difficultics on lis return into his native kingdom, he was murdered by barbarcus affaftins in the prime of life. In the monuments of his genius, he hatin been almoft equally unfortunate. No veftiges are now remaning of his fkill in architecture, gardening, and painting ; thongh we are affured by one who was well acquainted with him, that he excelled in all thefe arts*. Many of the productions of his pen have alfo perihed; for he tells us himelf that he wrote much $\dagger$; and we know of only three of his poems that are now extant, viz. Chrift's Kirk on the Green-Peebles at the Play-and the King's Quair, which was lately difcovered by Mr Warton, and hath been publified by another gentleman $f$. But flender as thefe remains are, they afford fufficient evidence, that the genius of this royal poet was not inferior to that of any of his contemporaries; and that it was equally fitted for the gaye!t or the graveft Itrains.
Janes II. king of Scotland, 1437, fucceeded his father, being then not feven years of age; and was killed at the fiege of Roxburgh in 1460 , aged 29.
J.hmes III. king of Scotland, fucceeded his father, in 1460 , in the 7 th year of his age. The moft atriking feature in the character of this prince, unjuftly reprefented as tyrannical by feveral hiftorians, was his fondnefs for the fine arts, and for thofe who excelled in them, on whom he beftowed more of his company, confidence, and favour, than became a king in his circumftances. This excited in his fierce and haughty nobles dillike and contempt of their fovereign, and indignation againft the objects of his favour; which produced the molt pernicious conferquences, and ended in a rebellion that proved fatal to James, who was Ilain in 1488 , aged 36 .

James IV. king of Scotland, fucceeded his father in 1488. He was a pious and valiant prince; fub. dued his rebellious fubjects; and afterwards, taking part with Louis XII. againft Henry VIII, of England, he was flain in the battle of Flowden-field in 15:3, aged 41.-This king is acknowledged to have had great accomplifhments both of mind and body. His Latin epilles are claffical, compared with the barbarous lyle of the foreign princes with whom he corsefponded. Like his father, he had a talle for the fine arts, particularly that of fculpture. The attention he paid to the civilization of his people, and bis diftribution of juftice, merit the highen praife. After all, the virtues of James appear to lave been more thining than folid: and his character was that of a fine gentleman and a brave knight, rathes than a wife or a great
monarch. At the time of his death, he was only in his furty firf year. Like all the minces of his family (to his great grandfon James VI.) his perfon was han 1 . forse, vigcrous, and active. Froms their coins, it does not appear that either he, or any of his predecufiors of the Suart race, wore their beards, as did all his fucceflors, to the reigu of Charles 11.
fanes V. king of Scotland, in 1513 , was but is months old when his father lof his hice. When of age, he affited Francis 1. kirg of Frarce againit the emperor Charles V.; for which fervice Francis gave him his eldeft dauphter in marriage, in 1535 . This princeis died in two yeas; and James married Mary of Lorraine, daughte: of Claud duke of Guife, and widow of Louis d'Orleans, by whons lie had only one child, the unfortunate Mary quech of Sicots, born or.ly eight days before his death, which happened December ${ }^{1} 3,1542$, in the $35^{\text {th }}$ ycar of his age. This wes the firf prince of his family who died a natural death fince its elevation to the throne. He died, however, of a broken leart, uccafioncl by dititerences with his barons. He was formed by nature to be the on nament of a throne and a bleffung to his people; but his excellent endonments were rendered in a great meafure ineffectual by an improper educaticn. Like moll of his predecentors, he was born with a vigorous, graceful perfon, which, in the early part of his reign, was improved by all the manly exerciles then in uie. This prince was the author of a humorous compolition in poetty, which goes by the name of the Gaberlunzie Man.

James VI. king of Scotland in 1567 , and of England in I Co3, was fon of Miary queen of Scots; whom he fucceeded in Scotland, as he did Elizabeth in England. Strongly attached to the Proteftant religion, he tignalized himfelf in its fupport; which gave vife to the horrid confpiracy of the Papifts to deltroy him and all the Englifs nobility by the Gunpowder Plot, difcovered November 5. 1605. The following year, a political teft of loyalty was required, which fccured the king's perfon, by clearing the kingdom of thofe difaffected Roman Catholic fubjects who would not fubmit to it. The chief glory of this king's reign confifted in the eftablimment of new colcnies, and the introduction of fome manufactures. The nation enjoyed peace, and commerce tlourifhed during his reign. Yet his adminiffration was defpifed bath at home and abroad : for, being the head of the Proteflant caufe in Europe, he did not fupport it in that great crifis, the war of Bohemia; abandoning his fon-in-law the elector Palatine; negociating when he thould have fought, deceived at the fame time by the courts of Vienna and Madrid; continually lending ilhuftrious ambaffadors to foreign powers, but never making a fingle ally. He valued himfelf much upon his polemical writings; and fo fond was he of theological difputations, that to keep them alive, he founded, for this exprefs purpofe, Chelfea-collese; which was converted to a much better ufe by Charles 11. His Baflicon Doron, Commentary on the Revelation, writings againft Bellarmine, and his Damonologia, or doctrine of witcheraft, are fufficiently known. There is a collcetion of his writings and fpeeches in one folio volume. Several other pieces of his are extant; fome of them in the Cabala, others in manufcript in the Britifh Mufeum, in the 5 yth year of his age, and 23 d of his reign. Jaxtes If. king of Lingland, Scotard, \&c. 1685 , grandfon of James I. fucceeded his brothet Charles II. It is remarkable. that chis prince wanted weither courage now political abilities whill he was duke of York; on the comtrary, he was cminent for both: but when he afcended the throne, he was no longer the fame man. A bigot from his infancy to the Romin religion and to bit hierarchy, he facrificed every thing to effablitle them, in direa contradiction to the experience he had acquired, during the long reign of his brother, of the genjus and clarater of the people he was to gevern. GuiJed by the Jefuit Peters his confeffor, and the infamous cliancellor Jeffies, he violated every law enacled for the fecurity of the Proteftant religion; and then, urable to face the refentment of his injured fubjects, he fled like a coward, inftead of difarming their rage by a. difriifion of his Popih minifters and priefts. He rather chofe to live and die a biget, or, as he believed, a faint, than to fupport the digus of his anceltors, or perifl beneath the ruins of his thronc. The confequence was the revolution in 1689. James II. died in France in 1710, aged 68. He wrote Memcirs of his own life and campaigns to the. reftoration ; the original of which is preferved in the Scotch college at Paris. This picce is printed at the end of Ramlay's life of Marfhal Turenne. 2. Memoirs of the Englifh affair, chiefly naral, from the year 1660 to 1673. 3. The royal fufferer, King James 11. confifing of meditations, foliloquies, vows, \&c. faid to be compofed by his majelly at St Germains. 4. Three letters; which were publifhed by William Fuller, gent. in 1702 , with other papers relating to the court of St Germains, and are faid in the title page to be printed by command.

Jimes, Thomas, a leamed Englifh critic and divine, born about the year 157 I . He recommended himfelf to the office of keeper of the public library at ()xford, by the arduous undertaking of publifing a catalogue of the MiSS in each college library at both univerities. He was elected to this office in 1602, and held it 18 years, when he refigned it to profecute his fludies with more freedon. In the convocation heid with the parliament at Oxford in 162.5, of which he was a member, he moved to have proper commiffioners appointed to collate the NISS of the fathers in all the libraties in England, with the Popilh editions, in order to detect the forgeries in the latter; but this propofal not meeting with the defired encouragement, he engaged in the laborious tafk himfelf, which be continued until his death in 1629 . He left behind him a great number of learned works.

James, Richard, nephew of the former, entered into orders in 1615 : bitt, being a man of humour, of three fermons preached before the univerfity, one cor-curning the obfervation of Lent was without a text, according to the moft ancient manner; another againft the text; and the third befide it. About the year 1619, he travelled through Wales, Scotlard, Shetland, into Greenland and Ruffia, of which he wrote obfervations. He affifted Selden in conipofing his Marmora Arundeliana; and was very ferviceable to Sir Robert Cotton, and his fon Sir Thomas, in diflofing and fettling their noble library. He died in

1638 ; and has an extraordinary charater given him by Wood for learning and abilities.

Janes; Dr Robert, an Engl:fh phÿncian of great eminence, and particularly diffinguilhed by the prepa ration of a moft excellent fever-powder, was born at Kinverfon in Staffordfiite, A. D. 1-03: bis father a major in the army, bis mother a fiter of Sir Robert Clarke. He was of St John's-college in Oxford, where he took the degree of A. B. and afterwards practiled phyfic at Sheffield, Lichfield, and Birmingham fucceflively. Then he removed to Lor,don, and became a licentiate in the college of phyficians; but in what years is not known. At London he applied himfelf to writing as well as practifing phyfic ; and in 1743, publifhed a Miedical Dictionary, in 3 vols folio. Soon after he publifhed ain Englifl tranlation, rith a Supplement by himfelf, of Ramazzini de morvis arififcum; to which he alfo prefixed a picce of Frederic Hoffman upon Endemical Diftempers, 8vo. In t/46, The Practice of Phyfic, 2 vols $8 \mathrm{ra}^{\circ}$; in 1760, On Canine Madnefs, $8 v 0$; in 1764 , A Difpeufatory, 8vo. June 25.5755 , when the king was at Cambridge, James was admitted by mandamus to the doctorlhip of phyfic. In 1788, were publifhed, A Differtation upon Fevers, and A Vindication of the Fever-powder, Svo ; with A Short Treatife on the Diforders of Children, and a very good print of Dr James. This was the 8th edition of the Differtation, of which the firt was printed in 1751 ; and the purpofe of it was, to fet forth the fuccefs of this powder, as well as to defcribe more particularly the manner of adminithering it. The Vindication was pofthumous and unfinithed: for he died March 23.1776 , while he was employed upon it.-Dr James was married, and left feveral fons and daughters.

IAMEs's Powder, a medicine prepared by Robert James, rhich is known alfo by the name of jamies's fever pozider. See Materia Medica Index.

Games's Town, a borough and market town of Ireland, in the county of Leitrim, and province of Connaught ; fiteated five miles north-weft of Carrick, on Shannon, and 73 north-weft of Dublin, in N. Lat. 53. 44. WV. Long. 8. 15. It has a barrack fer a company of foot, and returns two members to parliament; patronage in the family of King.-It has three fairs.

St JAMEs's Day, a feftival of the Chrifian church, oblerved on the $z_{5}$ th of Ju'y, in honour of St James the greater, fon of Zebecee.

Epifle of St ${ }^{\text {AMAES }}$, a canonical book of the Ners Teftament, being the firft of the catholic or general erifles; which are fo called, as not being writien to one Eut to feveral Chriftian churches.

This general epifle is addrelled partiy to the belicving and partly to the infidel Jews; and is defigned to correat the errors, forten the ungoverned zeal, ard reform the indecent behaviour of the latter; and to comfort the former under the great hardflips they then did, or fhortly were to fuffer, for the fake of Chriftianity.

Jamesone, George, an excellent painter, juitIy termed the Vandyce of Scolland, was the fon of Andrew Jamefone, an architect; and was born at Aberdeen, in 1586 . He fiudied under Rubens, at Antwerp: and, after his return, applied with indefatigable induftry to portraits in oil, though he fometimes practifct

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prasifed in miniature, and alfo in hiftory and landfcapes. His largeft po:traits were fomewhat lefs than life. His earlielt works are chietly on board, aiterwards on a fine linen cloth frooohly primed with a proper tone to help the harmony of his thadows. His excellence is faid to confint in delicacy and foftnefs, with a clear and beautiful colouring; his thates not çharged, but helped by varnif, witb little apperrance of the pencil. When King Charles I. vitited Scotland in 1633 , the magiftrates of Ldinburch, knowing his majefy's tafte, employed this artit to make dramings of the Scottih monarchs; with which the king was fo pleafed, that, enquiring for the painter, he fat to him, and rewarded him with a diamond ring from lis own finger. It is oblervable, that Jamefone always drew himfelf with his hat on, either in imitation of his mafter Rubens, or on having been indulged in that liberty by the king when he Cat to him. Many of Jame?one's works are in both the colleges of Aberdeen; and the Sibyls there he is faid to have drawn from living beauties in that city. His belt works are from the year 1630 to his death, which happened at Edinburgh in 1644.

JAMIN, AMAdis, a celebrated French poet in the 16 th century. He is efteemed the rival of Ronfard, who was his cotemporary and friend. He was fecretary and chamber-reader in ordinary to Charles IX. and died about 1585 . He wrote, 1. Poetical works, two vols. 2. Philolophical difcourfes to Paf.charis and Rodanthe, with feven academical difcourfes. 3. A tranfation of the Iliad of Homer, begun by Hugh Sabel, and finifhed by Jamyn; with a trandation into French verfe of the three firl books of the Odyfiey.

JANE of FLADERS, a remarkable lady, who leems to have poffeffed in her own perfon all the excellent qualities of both \{exes, was the wife of John de Mountfort, a competitor for the dukedom of Brittany upon the death of John III. This duke, dying without infue, left his dominions to his niece Jane, married to Charles Le Blois nephew to the king of France; but John de Mountfort, brother to the late duke though by a fecond marriage, claimed the duchy, and was received as fucceflor by the peop?e of Nantes. The greatelt part of the robility frore fealty to Charles de Blois, thinking him be!t fupported. This difpute occafored a civil war ; in the courfe of which John was taken prifoner, and fent to Paris. 'Ihis misfortune would have entirely ruined his party, had not his intereit been fupported by the exiraordinary abilities of his wife, Jante of Flanders. Bold, daring, and intrepif, the foaght like a warrior in the field ; fhrewd, fenfible, and fagacious, The foke like a politician in the couscil; and endowed with the mool amiable manners and vinning addrefs, me was able to move the minds of her fubjects by the furce of her eloguence, and mould them exactly according to her plealure. She happened to be at Rennes when the received the news of her humand's captivity; but that difalter, irftead of deprefing her pirits, ferved o:2ly to roufe her native courare ard fortitude. She forthwith affenbled the citizens; and, holding in her arms her infant fon, recommended him to their care and protection in the moa pathetic terms, as the male heir of their alcient dukes, who had alxays governed them with lenity and indulgence, and to whrm they fad ever profeffed the moft zealous attachrent. She
declared herfelf willing to run all hazards with them in Janerio fo juft a caufe; pointed out the refources that flill re- Janizaries mained in the alliance of England; earnefly befecch $\underbrace{\text { Janizafies }}$ ing them to make one vigorous effort againtl an ufurper, who being forced upon them by the intrigues of France, would, as a mark of his gratitude, facrifice the liberties of Brittany to his protector. The people moved by the affecting appearance, and animated by the noble conduct of the princefs, vowed to live and die with her in defending the rights of her family; and their example was followed by almolt a!l the Bretons. The counters went from place to place, encouraging the garrifons of the feveral fortreffes, and providing them with every thing neceflary for their fublithence: after which the fur herfelf up with her fon in Hennebon, where the refolved to wait for the fuccours which the king of England (Edward III.) had promifed to fend to her affistance. Charles de Blois, accompanied by the dukes of Burgundy and Bourbon, and many other noblemen, took the field with a numerous army, and having reduced Rennes, laid fiege to Hennebon, which was defended by the countefs in perion. This heroine repulfed the aflailants in als their attacks with the molt undaunted courage; and obferving one day that their whole army had left the camp to join in a general form, the ruthed forth at a poltern-gate, with three hundred horfe, fet fire to their tents and baggage, killed their futlers and fervants, and raifed fuch a terror and confternation through all their quarters, that the enemy gave over their affault, and getting betwist ber and the walls, endeavoured to cut ofi her retreat to the city. Thus intercepted, fhe put the fpurs to her horle, and without halting, galloped directly to Ereit, which lay at the diftance of iwo-and-twenty miles from the fcene of action. There being fupplied with a body of five hundred horfe, the inmediately seturned, and fighting her way through one part of the French camp, was received into Hennebon, amidit the acclamations of the people. Soon afier this the Englith fuccours appeared, and obliged the eremy to raife the fiege.

JANEIRO, or RIo-JNEIRO, a rivci and peovince of R:afil in South Arcrica, feated betwcen the tropic of Capricorn and $22^{\circ}$ of S. Lat. See Rio-Jinetro.

JANICULUM, or Jamicularis. a hill of ancient Rome, added by Ancus RIartius; the burial place of Numa, and of Statius Citclius the poet : to the eaft and fouth, having the liber; to the welt, the fields; to the north, a part of the Vatican. So called, cither from an ancient city, (Virgil); or becaufe it was a janua, or gate, from which to iffue out and makc incurfions on the 'Iufcans, (Verrius Flaccus.) Now called Mons Aureus, corruptly Montorius, from its farkling fands. From this hill, on account of its height, is the molt extenfive profpect of Rume: but it is lefs inhabited, tecaufe of its grofs air; neither is it reckoned among the feven hills. لiither thee people retired, and were hence afterwards recalle.i $b: \mathbf{O}$. Iorterfius the dictator, (Plinv.)
J.ANIZARIES, an order of iafantry in the Turlith. armies; reputed the grard feienior's foot-guards. Tohius denives the word from genizers, which in the Turkith language lignifies novi limmines or malites. D'Herbelot tell ws, that jon::cheri fignifies a new bond, or trons; and that the mane was firft given by Am:

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Jumzariss, rath ir. called the Congucror, who choong out one-fifth Jaricn. par ar the Chrinan prioners whom. le had taken
from the Greeks, and inftructing them in the difcipline of war and the doctrines of their religion, fent them to Fagi Bektafche (a perfon whofe pretended piety rendered him extremely revered among the Turls), to the end that he might confer his blething on them, and at the fame time give them fume nark to ditinguifh them from the reft of the troops.-Bektafche, after blefling them in his manner, cut of one of the fleeves of the fur-gown which he had on, and put it on the head of the leader of this new militia; from which tine, viz. the year of Chrift 136 , they have fill retained the mame jeritcheri, and the fun-cap.

As, in the 'lurkifh army, the European troops are diftinguilhed from thofe of Afia; the janizaries are alfo dillinguithed into janiaries of Conffaminople, and of Damafies. Their pay is from two afuers to twelve per dienn; for when they have a child, or do any fignal piece of fervice, their pay is augmented.- Their drefs confilts of a dolyman, or long gown, with ftoort fleeves, which is given them annually by the grand feigniur on the firft day of Ramazan. They wear no turbeau; but, in licu of that, a kind of cap, which they call zarcola, and a long bood of the fame ttuff hanging on their houlders. On folemn days they are adorned with feathers, which are fluck in a little cafe on the fore part of the bonnet.-Their arms, in Europe, in time of war, are a fabre, a carabine or mulket, and a cartouch-box hanging on the left fide. At Confantinople, in time of peace, they wear only a long liaff in their hand. In Afia, where powder and firearms are more uncommon, they wear a bow and arsows, with a poignard, which they call haniare.Though the janizaries are not prohibited marriage, yet they rarely marry, nor then but with the confent of their officers; as imagining a married man to make a worle foldier than a bachelor.-It was Ofman, or Ottoman, or, as others will have it, Amurath, who firft inflituted the order of janizaries. They were at firft called jaja, that is, footmen, to dintinguifh them from the other Turks, the troops whereof confifted molly of cavalry. The number of janizaries is generally above 40,000 ; divided into 162 companies or chambers called odas, in which they live together at Conftantinople as in a convent. They are of a fuperior rank to all other foldiers, and are alfo more arrogant and factious, and it is by them that the public tranquillity is moftly difturbed. The government may therefore be faid to be in the hands of the janizaries. They lave, however, fome good qualities: they are etioployed to efcort travellers, and efpecially ambaffadors and perfons of high rank, on the road; in which cafc they behave with the utmoft zeal and fidelity.

Janizaries, at Rome, are officers or penfioners of the pope, called allo participantes, on account of certain rites or duties which they enjoy in the annates, bulls, or expeditions, and the Roman chancery,-Mont authors are miltaken in the nature of their ofice: the truth is, they are officers of the third beach or college of the Roman chancery. The firit bench contiits of writers, the fecond of abbreviators, and the thisd of janizaries; who are a kind of correctors and Icvifurs of the pope's bulls.

JANSEN, CORNELLUS, bifhop of Ypres, one of the
moft lemand divines of the 17 th century, and primeipal of the fect called from his name Janfenifs. He was born in Holland of Catholic parents, and fudied at Louvain. Being fent to tranfact fome bufinefs of confegrence relating to the unirerfity, into Spain, the Catholicking, viewing with a jealous eye the intriguing policy of France, engaged him to write a book to expole the French to the pope as no good Catholics, fince they made no fcruple of forming alliances with Proteftant flates. Janfen performed this talk in his Mars Gallicus; and was rewarded with a mitre, being promoted to the fee of Ypres in 1635. He had, among other writings, before this, maintained a controverly againft the Preteflants upon the points of grace and predeltination; but his A:sgufinus was the principal labour of his life, on which he lipent above 20 years. Sce the next article.

JANSENISTS, in Church IIffor:, a fect of the Roman Catholics in France, who followed the opituions of Janfenius, bihop of Ypres, and doctor of divinity of the univerfities of Louvain and Douay, in relation to grace and predeftimation.

In the year $16 \not 0$, the two univerlities juft mention:ed, and particularly Father Molina and Father Leeonard Celfus, thought fit to condemn the opinions of the Jefuits on grace and free-will. This having fet the controverfy on foot, Janfenius oppofed to the doctrine of the Jefuits the fentiments of St Auguftine; and wrote a treatife on grace, which he entitled Augujinus. This treatife was attacked by the Jefuits, who accufed Janfenius of maintaining dangerous and heretical opinions; and afterwards, in 1642 , obtained of Pope Urban VIII. a formal condemnation of the treatife written by Janfenius: when the partizans of Janfenius gave out that this bull was fpurious, and compofed by a perfon entirely devoted to the Jefuits. After the death of Urban VIlI, the aftair of Janfenifm began to be more warmly controverted, and gave birth to an infinite number of polemical writings concerning grace. And what occafioned fome mirth, was the titles which each party gave to their writings; one writer publilhed The torch of St Augufine, another found Snuffers for St Augufine's torch, and Father Veron formed Agag for the fanfenills, \&c. In the year 1650, 68 bihops of France fubfribed a letter to Pope Innocent X. to obtain an inquiry into and condemnation of the five following propofitions, extracted from Janfenius's Auguftinus: 1. Some of God's commandments are impoffible to be obferved by the righteous, even though they endeavour with all their power to accomplifi them. 2. In the flate of corrupted nature, we are incapable of refifting inward grace. 3. Merit and demerit, in a ftate of corrupted nature, does not depend on a liberty which excludes neceffity, but on a liberty which excludes conftraint. 4. The Semipelagians admitted the necelfity of an inward preventing grace for the performance of each particular act, even for the begimning of "aith: but they were heretics in maintaining that this grace was of fuch a nature, that the will of man was able either to refift or obey it. It is Semipelagianifm to fay, that Jefus Chrift died, or fhed his blood, for all mankind in general.

In the year 1652 , the pope appointed a congregation for examining into the difpute in relation to grace. In this congregation Janfenits was condemned; and

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Janfens. the bull of condemnation, publifhed in May 1653 , filled all the pulpits in Paris with violent outcries and alarms againtt the herefy of the Janfenifts. In the year $16 ; 6$, Pope Alexander VII. iffued out another bul!, in which he condemned the five propofitions of Janfenius. However, the Janfenifts affirm, that thefe propofitions are not to be found in this book; but that fome of his enemies having caufed them to be printed on a fheet, inferted them in the book, and thereby deceived the pope. At laft Clement XI. put an end to the difpute by his conflitution of July 17.1705 ; in which, after having recited the conftitutions of his predeceffors in relation to this affair, he declares, " "hat in order to pay a proper obedience to the papal conilitutions concerning the prefent queltion, it is necelfary to receive them with a refpectful filence." 'The clergy of Paris, the fame year, approved and accepted this bull, and none dared to oppofe it.

This is the famous bull Unizenimes, fo called from its begiming with the words Unigenitus Dei Fitius, \&c. which has occafioned fo much confufion in France.

JANSSENS, ArrahiM, hiftory-painter, was born at Antwerp in 1569 . He was cotemporary with Ru bens, and alfo his competitor, and in many of the fineft parts of the art was accounted not inferior to that celebrated mafter. It is reported, that having watted his time and his fubftance by a life of diffipation and pleafure, and falling into neceffitous circumftances, which he imputed more to ill fortune than to his own neglect of his bufinefs, he grew envious at the grandeur in which Rubens appeared, and impatient at his merit and fuccefs; and with peevih infolence challenged him to paint a picture with him only for fame, which he was willing to fubmit to impartial judges. But Rubens rejected the propofal, anfwering with modefty, that he freely fubmitted to him, and the world would certainly do juftice to them both.

Sandrart, who had feen feveral of his works, affures us, that he not only gave a fine roundnefs and relief to his figures, but alfo fuch a warmth and clearnefs to the carnations, that they had all the look of real Hefh; and his colouring was as durable as it was beautiful, retaining its original luftre for a number of years. His moft capital performance is faid to be the refurrestion of Lazarus, which is in the cabinet of the elector Palatine, and is an object of admiration to all who bchold it.

Jasssevs, Victor Honorius, hiftory-painter, was horn at Bruffels in 166 4 , and was a difciple of one Volders, ander whofe direction he continued for feven years; in which time he gave many proofs of a genius far liperior to thofe who were inflructed in the fame fchool. He afterwards went to Rome, where he attended particularly the works of Raphael; he defigned after the antiques, and Netched the beautiful feenes atound that city; and in a thort time his paintings rofe in efteem, and the principal nobility of Rome were defirous to employ him. He affociated with Tompefta, the celebrated lardfcape-painter, for feveral years, and painted the figures in the works of that great mafter as long as they refided together.

Janflens compofed hiftorical fuhjects, both in a fmall and a large fize; but he found the demand for his Emall pictures fo confiderable, that he was induced to
paint moll frequently in that fize. During if veats Tal.fer=. he continued at Rome, which barely fulficed for his Jahuarmuso finifhing thofe pictures for which he was etrgaged; nor could he have even then been at his liberty, had he not limited himfelf to a number, and determined not to undertake more.-Rcturning to bruflels, his performances were as much admired there as they had before been in Italy; but having married, and gradually beconic the father of 11 children, he was compelled to change his manner of painting in fmall, and to undertake only thole of the lange hind, as being more lucrative, more expeditious, and alfo more agrceabic to his ge.. nins and inclination. He adorned moft of the churches and palaces of his own country with his compotitions. - The invention of this artift was fritful ; he defigned correctly, his colouring is natural and pleafing, his pencil free, and the airs of his heads have beauty and clegance. As to the difference between his large and fmall paintings, it is obferved, that in rorrechnels and tafte they had an equal degree of merit; but the colouring of the former appears more raw and cold than the colouring of the latter; and it is agreed, that for fmall hillorical pictures, he was preferable to all the painters of his time.

Javssev, Cornclius, called Yohnfon, an eminent pain. ter of portraits, was born at Amblerdan (though in the Chronological tables, and in Sandrart, it is improperly afferted that he was born in London), and he refided in England for fevcral years; where he was engaged i:n the lervice of King James I. and painted feveral excellent portraits of that monarch, as alfo of his children and of the principal nobility of his court. He had not the freedom of hand, nor the grace of Vandyck; but in other refpeets he was accounted his equal, and in the finithing his pictures fuperior. His paintings are eafly difinguifhed by their fmoo:h, clear, and delicate tints, and by that character of truth and nature with which they are itrongly marked. He generally painted on board; and, for the molt part, his draperies are black; probably becaule the oppofition of that tint made his flefh colours appear more beautifully bright, efpecially in his female figures. It is faid that he ufed a quanity of ultramarine in the black colours, as well as in his carnations; which may be one great caufe of their preferving their original luftre even to this day. Frequently he painted in a finall fize in oil, and often copied his own works in that manier. His fame began to bc fomewhat obfcured, on the arrival of Vandyck in England; and the civil war breaking out fame time after, induced him to return to his own country, where his paintings were in the higheft efteem. He died in 1685.

St JANUARIUS, the patron faist of Naples, where his head is occafionally carried in procelfon, in order to flay the eruption of Vefuvius. The liquefaction of his blood is a famous miracle at Naples. The faint fuffered martyrdom about the end of the third century. When he was beheaded, a pious lady of Naples caught abont an ounce of his blood, which has bcen catcfully prefcrved in a bottle ever fuce, without having loft a fingle grain of its weight. This of itfelf, were it equally demontrable, might be corrfidered as a greater miracle than the circumftance on which the Neapolitans lay the whole ftrefs, viz. that the blood which has congealed, and acquircd a rolid

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form by age, is no fooner brought near the head of the faint, than, as a mark of veneration, it immediately 1i-
quefies. This experiment is made three different times cicry year, and is confidered by the Neapolitans as a niracle of the firt magnitude.

The fubutance in the botle, which is exhibited for the blood of the faint, bas been fuppoled to be fomething maturaliy folid, but which melts with a fmall dereree of leat. When it is frrlt brought out of the cold chapel, it is in its natural folid hate; but when brouglit before the faint by the prief, and rubbed beiween his warm hands and breathed upon for fome tine, it me'ts; ard this is the whole myftery. But I) Mioore, though he confefies himfelf unable to exflain on that principle the liquefaction depends, is corviriced that it muft be fomething different frem this: " For he lad it (he informs us) from the molt fatisfacory authority, from thofe who had opportunities of k:owing, and who believe no more in the mjracie than the fauncheft Proteftant, that this conEceated mafs has fometimes been found in a liquid tlate in cold weather, beforc it was touched by the prieft, or brought near the head of the faint; and that, on cther occations, it has remaincel folid when brought befure him, notwithltanding all the efforts of the prieft to nelt it. When this happens, the fuperfitious, which, at a very moderate calculation, comprebends 99 in Ico of the inhabitants of this city, are thrown into the utmof conflemation, and are fometimes virourth up by their fears into a flate of mind which is highly dangerous both to their civil and ecclefiatical goverions. It is true, that this happers but felidom: for, in general, the fubltance in the phisl, whatever it may be, is in a folid form in the clapel, and becomcs liquid when brought before the faint: but as this is not always the cafe, it affords reafon to believe, that whatever may have been the cafe wion this miracle or trick, call it which you pleafe, was firft exhibited, the principle on which it depeads has fomehow or other been lont, and is not now underflood fully even by the prielis themfelves; or elfe they are not now fo expert as formerly, in preparing the fubftance which reprefents the faint's blood, fo as to make it remain folid when it ought, and liquefy the inflant it is required."
The head and blood of the laint are kept in a kind of prefs, with folding doors of filver, in the chapel of St Januarius belonging to the cathedral chureh. The real head is probably not $f_{0}$ frell and well preferved as the blood. On that account, it is not expufed to the eyes of the public; but is inclofed in a large filver buft, gilt and euriclied with jewels of high value. This being what appears to the people, their idea of the fuint's features and complesion are taken entirely frem the buft.-The blood is kept in a fmall repofitory by itfelf.

JANUARY, the nanie of the firf month of the ycar, according to the computation now wfed in the wef. The word is derived from the Latin Gamarius, a name given it by the Romans from Janns, one of their divinities, to whom they attributed two faces, leecaufe on the one fide the fint day of January looked towards the new year, and on the other towards the whd onc. The word fanuarius may alfo be derived from jenua "gate;" in regard this month being the Lirlt, is, is it were, the gate of the year.

Jinuary and February were introduced into the year by Numa Pommilius; Romuus's year beginning in the month of March. - The kalends; or frit day of this month, was under the protection of Junu, and in a peculiar manner confecrated to Janus $i y$ an cfiering of a cake made of new meal and new falt, with new frankincente and new wine. On the firt day of Tanumaty a beginning was made of every intended work, the confuls clec: took poffiffion of their office, who, with the flamens, offered facrifices and prayers for the profperity of the cmpire. On this day all animonicies were fufpended, and friends gave and received new year's gifts, called Strence. On this day too the Romans above all things took care to be merry and divert themfelves, and oftentimes fuch a feene of drunkennefs was exhibited, that they might with propriety enough lave diftinguiflied it with the name of All-fools day.

The Chriftians heretofore fafted on the firlt day of January, by way of oppofition to the fuperlititions and debaucheries of the heathens.

JANUS, in the heathen worflip, the firf king of Italy, who, it is faid, received Saturn into his dominions, after his being driven from Arcadia by Jupiter. He tempered the manners of his fubjects, and taught them civility; and from him they learned to improve the vine, to fors corn, and to make bread. After his death, he was acored as a god.

This deity was thought to prefide over all new undertakings. Hence, in all facrifices, the firt libations of wine and wheat were offered to Janus, all prayers prefaced with a fhort addrefs to him; and the firlt month of the year was dedicated to and named from him. See Jantary.

Janus was reprefented with two faces, either to denote his prudence, or that he views at once the paft and approaching years; he had a fceptre in his right hand, and a key in his left, to fignify his extenfive authority, and his invention of locks.

Though this is properly a Roman deity, the abbé la Pluche reprefents it as derived from the Egyptians, who made known the rifing of the dog-ftar, which opened their fular year, with an image with a key in its hand, and two faces, one old and the other young, to typify the old and new year.

Temple of y aNus, in ancient hiflory, a fquare building at Rome (as fome fay) of entire brafs, exected by Romulus, and fo large as to contain a ftatue of Janus five feet high, with brazen gates on each fide, which were always kept open in time of war, and fhat in time of peace. But the Rumans were fo much engaged in war, that this temple was ftut on!y twice from the foundation of Rome till the reign of Auguflus, and fix times afterwards. It was firlt thut during the long seign of Numa, who inllituted this ceremony. 2. In the year of the city 519, after the end of the firft Punic war. 3. By Augultus after the battle of Actium, in the year of Rome 725. $\quad \therefore$. On Augufus's return from the war which lie had againf the Cantabrians in Spain, in the year of Rome 729. 5. Under the fanne emperor, in $i+1$, ahout five years befure the birth of Chrift, when there was a general peace throughout the whole Ruman empire, which lalted 12 years. 6. Under Nero, 811. 7. Under Vefpafian, 824. 8. Under Conflantius, when, upon Magnentius's death, he was left fole pofieflor of the empire, 1105 : Sume difpute the
authority on which it is faid to have been fhut by Conflantius, and fay that the latt time of its being thut was under Gordian, about the year of Rome 994. Tirgil gives us a noble defcription of this cuftom, An. lib. iii. ver. 607 . The origin of this cultom is not certainly known.

Javus was alfo the $\begin{gathered}\text { ame of a flrect in Rome, inha- }\end{gathered}$ bited for the moft part by bankers and uflurers. It was fo called fron two ftatues of Janus which were crected there, one at the top, the other at the botton, of the freet. The top of the freet was therefore called $y_{a-}$ nus Summus, the bottom Yanus Imus, and the middle Yazus Medius. Hence Horace, lib. I. epift. I.

Hucc yanus fummus ab imo perdocet.
And Sat. 3. Lib. 2.

## Pafquam <br> omnis res mea Yanum <br> Ad mediam fracta eft.-

JAPAN, a general name for a great number of illands lying between the eaftern coaft of Afia and the wellern coalt of America, and which all together form a large and powerful empire. They extend from the $3^{\text {oth }}$ to the $f^{\text {Ift }}$ degree of north latitude, and from the 13 oth to the 147 th of eaft longitude.

Were South and North Eritain divided by an arm of the fea, Japan might be moft aptly compared to England, Scotland, and Ire?and, with their refpective fimaller itands, peninfulas, bays, channels, \&\&c. ail under the fame monarch.

The Europeans call the empire yapan; but the inhabitants Niplon, from the greatelt illand belonging to it ; and the Chinefe Ciphon, probably on account of its eaftern fituation; thefe names fignifying, in both languages, the Bafis or Foundation of the Sun. It was frlt difcovered by the Portuguefe about the year of Chrift 1542.

Moft of the iflands which compofe it are furrounded with fuch high craggy mountains, and fuch fhallow and boifterous feas, that failing about them is extremely dangerous; and the creeks and bays are choaked up with fuch rocks, thelves, and fands, that it looks as if Providence had defigned it to be a kind of little world by itfelf. Thefe feas have likewife many dangerous whirlpools, which are very difficult to pafs at low water, and will fuck in and fwallow up the largeft veffels, and all that comes within the reach of their vortex, dafhing them againf the rocks at the bottom ; infornuch that fome of them are never feen again, and others thrown upon the furface at fome miles diflance. Some of thefe whirlpools alfo make a noife terrible to hear.

The Chinefe pretend that the Japan illands were firft peopled by themfelves: but it is more probable that the original inhabitants were a mixture of different nations, driven thither by thofe tempeftuous feas, at differcht times.

As thefe illands lie in the firth and fixth climates, they would be much hotter in fummer than England, vere not the heats refrefted by the winds which continually blow frem the fea around them, and to which they are much expofed by the leeight of their fituation: this circumflance, ho:xever, not only renders their winters exceffisely cold, but the feafons more inconflant. They have great falls of fnow in winter,
which are commonly followed by hard frons. The rains in fumner are very violent, efpecially in the months of June and July, which on that account are called fat futi, or water-months. The country is alfu much fubject to dreadful thunders and lightnings, as well as florms and hurricanes, which frequently do a great deal of damage.

The foil, though naturally barren and mountainous, by the induffry of the inhabitants, not only fupplies them with every neceliary of lifc, but alfo furnithes other countries with ther. ; producing, befides corn, the fineft and whitelt rice and other grains, with a great variety of fruits, and valt numbers of cattle of all forts. Befides rice, and a fort of wheat and barley, with two forts of beans, they have Indian wheat, nillet, and feveral other kinds in great abundance. Their feas, lakes, and rivers, abound with fin ; and their mountains, woods, and forefls, are well ftocked with horfes, elephants, deer, oxen, buffaloes, theep, hogs, and other ufeful animals. Some of their mountains alfo are enriched with mines of gold, filver, and copper, exquifitely fine, befidcs tin, lead, iron, and various other minerals and folfils; whiln others abound with feveral forts of marble and precious fones. OE thefe mountains, fome may be juftly ranked among the natural rarities of this comintry; one, in particular, in the great illand of Niphon, is of fuch prodigious height as to be cafily feen forty leagues off at fea, though its diftance from the fhore is about eighteen. Some authors think it exceeds the fanncus Peak of Teneriffe; but it may rather be called a clutter or group of mountains, among which are no lefs than eight dreadful volcanoes, burning with incredible fury, and often laying walte the country round about them: but, to make fome amends, they afford great variety of medicinal waters, of different degrees of heat; one of thefe, mentioned by Varenius, is faid to be as hot as burning oil, and to fcorch and confume every thing thrown into it.
The many brooks and rivers that have their fources among the mountains, form a great number of delightful calcades, as well as fome dreadful cataracts. Among the great variety of trees in the forefts here, the cedars exceed all of that kind through India, for flraightnefs, height, and beauty. They abound in mof of the iftands, efpecially the largef.
Their feas, befides filh, furnifh them with great quantities of red and white coral, and fome pearls of great value, befides a variety of fea plants and flells; which lail are not inferior to thofe that are brought from Amboyna, the Molucca and other eatterly illands.
The vaft quantity of fulphur with which mof of the Japan illands abounds, makes them fubject to frequent and dreadful earthquakes. The inhabitants are fo accultomed to them, that they are fcarcely alarmed at any, unlefs they chance to be very terrible indeed, and lay whole towns in ruins, which very often pioves the cafe. On thefe occafions, they have recourfe to extraordinary facrifices, and atts of worlhip, to their dcities or demons, according to the different notions of each feet, and fonetimes cven proceed to offer human victims; but in this cafc they ouly take fome of the vileft and moft abandoncd fellows they can meet with, becaufc they are only facrificed to the malevolent deities.

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Japan. The religion throughout Japan, it is well known, is Pagan, flit into feveral fects, who live together in the greateft harmony. Every fect has its own temples and pricfts. The firitual enge:or, the Dairi, is the chief of their religion. They acknowlcdge and honour a Supreme Being. The author of this relation (Dr Thunberg) faw two temples of the God of gods of a majeftic height. The idol that reprefented this god was of gilded wood, and of fo prodigious a fize, that upon his hands fix perfons might fit in the Japanefe fahion; his floulders were five toifes broad. In the other temole, the infnite power of this god was reprefented by little gods to the number of 33,333 , all fanding round the great idol that reprefented God. The prielts, who are numerous in every temple, have nothing to do but to clean the pavement, light the lamps, and drefs the idol with flowers. The temples are open to every body, even to the Hollanders; and in cafe they are in want of a lodging in the fuburbs, when they go to the court of Jeddo, they are entertained with hofpieality in thefe temples.
The Roman Catholic religion had once made a confiderable progrefs in this country, in confequence of a milfion conducted by the Portuguefe and Spanilh Jefuits; among whons the famous Saint Frawcis Xavier was employed, but foon relinquifhed the fervice. There were alfo fome Francilican fiars of Spain engaged at iaft. The Jefnits and friars were fupplied from Goa, Nacao, and the Manilhas. At firft the undertaking proceeded with the moit rapid fuccefs, but ended at lalt in the moft tragical manner, all owing to the pride and haughtinefs, the mifconduct, rapacity, and fenfelefs extravagant confpiracy of the fathers againft the fate. This folly and madnefs produced a perfecutio:s of 42 years duration, terminated by a moft horrible and bloody maflacre, not to be paralleled in hiftory. After this the Portuguefe, as likewife the Chriftian religion, were totally expelled the country, and the moft effectual means taken for preventing their return. The natives are for this purpofe prohibited from going out of the country; and all foreigners are excluded from an open and free trade; for as to the Dutch and Chinefe, under which laft name fome other eattern nations go thither, they are fhut up whilit they remain there, and a molt frict watch is fet upon them, informuch that they are no better than prifoners; and the Dutch, it is faid, to obtain a privilege even fo far, declared themifelves to be no Chrifians, but Dutchmen. This calumny, however, Dr Kempfer has endeavoured to wipe off, but not altogether to fatisfaction.
It was about the year of Chrift $\mathbf{I} 549$, or fix years after the firft difcovery, that the fathers of the fociety arrived therc, being induced by the favourable reprefentations of a young Japanefe who had fled to Goa. Till the year 1625 , or near 1630 , the Chritian religion Ipread through moft of the provinces of the empire, many of the princes and lords openly embracing it; and "there was very good reafon to hope, that within a thort compats of time the whole empire would have been converted to the faith of our Saviour, had not the ambitious viers, and the impatient endeavours of the fathers to reap the temporal as well as the fpiritual fruits of their care and labour, fo provoked the fupreme majelly of the empire as to raife againft thenfelves and their converts a perfecution which hath not its parallel
in hiftory, whereby the religion they preached, and all thole that profent it, were in a few years time entirely exterminated." - The fathers hat made a profrefs fo great, that the princes of Sungu, Arima, and Ornura who had been baptized, "fent, in the year 158 2, fome of their neareft relations, with letters and prefents to pay homage to the then pope, Gregoly XIII. and to affure his holinefs of their filial fubmiftion to the church; an account of whicls moft celebrated embally hath been given in the works of that incomparable hiftorian Thuanus, and by mary other Romis catholic writers."

But notwithftanding this pleafing profpect, the emperor, anno 1585 , iffiued proclamatiois for the fuppreflion of the religion, and the perfecution began. This, however, at firft had not that effect which the government expected; for though, according to the letters of the Jefuits, 20,570 pcrfons fuffered death for the faith of Cbrift in the year 1590 only, yet in 1591 and 1592, when all the churches were actually thut up, they made 12,000 new converts. The bufinefs was finally concluded by the maffacre at Simabara, about the year 1640. The reafons of the emperor's proclamations, making it death to embrace the religion, were as follow: 1. The new religion occafioned corfiderable alterations in the Japanefe church, and was prejudicial in the higheft degree to the heathen clergy. 2. It was feared the innovation in religion might be attended with fatal confequences even in regard to the fick; but what more immediately gave rife to them was, as the Japanefe of credit confeffed to Dr Kempfer, pride and cove:oufnefs; pride among the great ones, and covetoufnefs in people of lefs note; the fpiritual fathers aiming not only at the falvation of their fouls, but having an eye alfo to their money and lands, and the merchants difpofing of their goods in the noot ufurious and unreafonable manner. To confine ourfelves to the clergy here: they "thouglat it beneath their dignity to walk on foot any longer; nothing would ferve them but they muft be carried about in fately chairs, mimicking the pomp of the pope and his cardinals at Rome. They not only put themfelves on an equal footing with the greateft men of the empire, but, fwelled with ecclefiafical pride, fancied that even a fuperior rank was nothing but their due. It one day happened, that a Portuguefe bilhop met upon the road one of the counfellors of flate on his way to court. I he haughty prelate would not order his chaife to be ftopped, in order to alight and to pay his refpects to the great man, as is ufual in that country; but without taking any notice of him, nay, indced without thowing him fo much as common marks of civility, he very contemptuounly bid his men carry him by. The great man, exafperated at fo fignal an affont, thenceforward bore a mortal hatred to the Portuguefe, and, in the height of his juft refentment, made his complaint to the emperor himfelf, with fuch an odious picture of the infolence, pride, and vanity of this nation, as he expected could not but raife the cmperor's utmont indignation." This happened in 1566 . The next year the perfecution began anew, and 26 perfons, of the number whereof were two foreign Jefuits, and feveral other fathers of the Francifcan order, were executed on the crofs. The emperor Jiojas had ufurped the crown on his pupil Tidajori, who, as like wife the greater part of his court and party, had been either Chriflians themfelves,

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felves, or at 'caft very favourably inclined to that religion; fot treafons of ftate mightily co-operated to forsvard t' perfecution.

Sorre .ancifcan friars, whom the governor of the Manill ad fent as his amballadors to the emperor of Japan - e guilty at this time of a motl imprudent flep : i' $y$, during the whole time of their abode in the cc : ary, preached openly in the ftreet of Macao where ti:- relided; and of tieeir own accord built a church, ceitrary to the imperial commands, and contrary to the advice ard earneit folicitations of the Jefuits.

Some tine after, a difcovery of a dangerous confpiracy, which the fathers, and the yet remaining adherents of their religion, entered into againft the perfon of the emperor as a heather prince, put a finihing flroke to the affair, and haliened the fentence which was pronounced foon after, that the Portuguefe Jould for ever be banijbed the emperor's dominions; for till then the ftate feemed delirous to fpare the merchants and fecular perfons, for the purpofe of continuing trade and commerce with them, which was looked upon as an affair independent of religion. The affair of the confpiracy was as follows: the Dutch had had an eye to the trade of Japan before $16=0$, and in 161 r had liberty of a free commerce granted them by the imperial letters patent, and had actually a factory at Firando. The Dutch were then at war with Spain, whicin was then forereign of the Portuguefe dominions; fo that it was natural for them to be trying to fupplant them. The Portuguefe, on their parts, made ufe of all malicious inventions to blacken their characters, calling them rebels and pirates, whence it was natural for the Dutch to endeavour to clear, and even to revenge, them\{elves. Now they "took an homeward-bound Portuguefe thip near the Cape of Good Hope, on board of which they found fome traitorous letters to the king of Portugal, written by one Captain Moro, who was chief of the Portuguele in Japan, himfelf a Japanefe by birth, and a great zealot for the Chriftian religion. The Dutch took fpecial care to deliver the faid letters to their protector the priace of Firando, who communicated them without lofs of time to the governor of Nagafaki, a great friend to the Portuguefe. Captain Moro having been taken up, boldly, and with great affurance, deriod the faet, and fo did all the Portuguefe then at Nagafaki. Horrever, neither the governor's favour, nor their conftant denial, were able to clear them, and to keep off the cloud which was ready to break over their heads. Hand and feal conrinced them; the letter was fent up to court, and Captain Moro fentenced to be burnt alive on a pale, which was executed accordingly. This letter laid open the whole plot which the Japanefe Chriffians, in conjunction with the Portugucfe, had laid againft the emperor's life and throne ; the want they flood in of ihips and foldiers, which were promifed them from Portugal ; the names of the Japanefe princes concerned in the confpiracy; and lanly, to crom all, the expectation of the papal bleffing. This difcovery made by the Dutch was afterivards confirmed by another letter written by the faid Captain Moro to the Purtuguefe government at Macao, which was intercepted and brought to Japan by a Japanefe fhip."

Confidering this, and the fulpicions which the ccurt had thea already conceived againft the Portuguefe, it was no dificu.t matter thoroughiy to ruin the little cre-

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dit and favour they had as yet becn able to preferve; and the rather, fince the frict imperial orders notwithflanding, they did not leave off privately to bring over more ecclefialtics. Accordingly, in the year 1637 , an inoperial proclamation was fent to the governors of Nagafaki, with orders to fee it put in execution. It was then that the empire of Japan was dhut for ever both to foreigners and natives.

Norr, although the governors of Nagafaki, on receipt of thefe comanands, took care they thould be obe ed, yet the directors of the Portugucle trade maintained them「elves in Japan two years longer, boping to obtain leave to ftay in the illand of Defima, and there to continue their trade. But they found themfelves at latt wholly difappointed; for the emperor was refolved to get rid of them; and on afurance given him by the Dutch Eaft India company that they would fupply for the future what commodities had been imported by the Portuguefe, he declared the Portuguefe and the Caltilians, and whoever belonged to them, enemies of the empire, forbidding the importation of evea the goods of their country, Spanifh wines only excepted, for the ufe of the court. And thus the Portuguefe loft their profitable trade and commerce with Japan, and were totally expelled the country before the latter end of the year 1639 or 1640 ; and thus ended the fruitlefs popith milfion in this empire, for the Portuguefe have never been able to refore themfelves; and the Dutch have it not in their power to do any one thing in favour of religion, were they fo inclined; but, as it appears, they are very indifferent as to that, and are in but little credit with the Japanele.

According to Dr Thunberg's refearches, the Japanefe have never been fubdued by any foreign power, not even in the moft remote periods; their chronicles contain fuch accounts of their valcur, as one would rather incline to confider as fabulous inventions than actual occurrences, if later ages had not furnilhed equally friking proofs of it. When the Tartars, for the firit time in 790 , had overrun part of Japan, and when, after a confiderable time hail elapfed, their fleet was deltroyed by a violent Itorm in the courfe of a finglea night, the Jananefe general attacked, and fo totally defeated lis numerous and brave enemies, that not a fingle perfon furvived to return and carry the tidings of fuch an unparalleled defeat. In like manner, when the Japanefe were again, in 128 I , invaded by the warlike Tartars, to the number of 240,000 fighting men, they gained a victory equally complete. The extirpation of the Portuguefe, and with then of the Chrittian religion, towards the beginning of the 17 th century, as already menticned, was fo complete, that fcarce a refige can now be differned of its ever laving exilted there.

With reffeet to the government of thefe itlands, it is and has been for a loty time monarclical; though formerly it feems to have been fplit into a great number of petty kingdoms, which were at length all fivallowed by one. The imperial dignity had been enjoyed for a couliderable time before the year 1500 , by a regular fucceffion of princes, under the title of dairos, a name fuppofed to have beca derived fram Dairo the head of that family. Soon atter that epoch, fuch a dreadful civil war broke out, and lafted fo many years, that the empirc was quite suined. Durring thefe diffrations and confufions, a common fol-

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Japan. dier, by name Tayckoy, a perfon of obfcure birth, but of an enterprifing genius, found means to raife himfelf to the imperial dignity; having, in little more than three years time, by an uncommon thare of good fortune, fubdued all his competitors and opponents and reduced all their cities and caftles. The dairo not being in a condition to obftruct or put a fop to his progrefs, was forced to fubmit to his terms; and might perhaps have been condemned to much header, had not Tayckoy been apprehenfive left his foldiers, who ftill revered their ancient natural monarch, flou!d have revolted in his favour. To prevent this, he granted him the fupreme power in all religious matters, with great privileges, honours, and revenues annexed to it; whilft himlelf remained invefted with the whole civil and military power, and was acknowledged and proclaimed king of Japan. This great revolution happened in 1517, and Tayckoy reigned feveral years with great wifdom and tranquillity; during which he made many wholefome laws and regulations, which ftill fubfift, and are much admired to this day. At his death, he left the crown to his fon Tayckoffama, then a minor; but the treacherous prince under whole guardianfhip he was left deprived him of his life before he came of age. By this murder, the crown paffed to the family of Jejaflama, in which it ftill continues. Tayckoy and his fucceffors have contented themfelves with the title of cubo, which, under the dairos, was that of prime minifter, whofe office is now fupprefed; fo that the cubo, in all fecular concerns, is quite as abfolute and defpotic, and has as extenfive a power over the lives and fortunes of all his fubjects, from the petty kings down to the loweft perfons, as ever the dairos had. The dairo refides conftantly at Meaco, and the cubo at Jeddo.

The inhabitants of Japan are well-grown, agile, and - active, and at the fame time fout-limbed, though they do not equal in firength the northern inhabitants of Europe. The colour of the face is commonly yellow; which fometimes varies to brown, and fometimes to white. The inferior fort, who during their work in fummer have often the upper parts of the body naked, are fun-burnt and browner ; women of diftinction, who never go uncovered intothe open air, are perfectly white.

The national character, confifts in intelligence and prudence, franknefs, obedience, and politenefs, goodnature and civility, curiofity, induftry, and dexterity, economy and fobriety, hardinefs, cleanlinefs, juftice and uprightnefs, honeffy and nidelity ; in being alfo miftrulfful, fupertitiouc, haughty, refentful, brave and invincible.

In all its tranfactions, the nation flows great intelligence, and can by no means be numbered among the larage and uncivilized, but rather is to be placed amang the polifned. 'The prefent mode of government, admirable $\mathbb{E}$ ill in agriculture, fparing mode of life, way of trading with foreigners, manufactures, \& \& afford consincing proofs of their curning, firmnefs, and intrepid courage. Here there are no appearances of that vanity fo common among the Afiatics and $A$ fricans, of adorning themfelves with flells, glafb-beads, and polifhed metal plates: neither are they fond of the ufelefs European ornaments of gold and lilver lace, jewels, \& c, but are careful to prowide themfelses, from
the productions of their own country, with neat clothes, well-talted food, and good weapons.
'Their curiofity is excellive; nothing imported by the Europeans efcapes it. They afk for information concerning every article, and their quefions continue till they become wearifome. It is the phyfician, among the traders, that is alone regarded as learned, and particularly during the journey to court and the refidence at Jeddo, the capital of the empire, that he is regarded as the oracle, which they truft can give refponfes in all things, whether in mathematics, geograpliy, phylics, chemiftry, pharmacy, zoology, botany, medicine, \&c.

Economy has its peculiar abode in Japan. It is a virtue admired as well in the emperor's patace as in the meaneft cottage. It makes thofe of limall polleftions content with their little, and it prevents the abundance of the rich from overfowing in excefs and voluptuoufnefs. Hence it happens, that what in other countries is called fcarcity and famine, is unknown here; and that, in fo very populous a ftate, fcarce a perfon in neceflity, or a beggar, hould be found.

The names of families, and of fingle perfons, are under very different regelations from ours. 'The family name is never changed, but is never ufed in ordinary converfation, and only when they fign fome writing; to which they alfo for the moft part affix their fea!. There is alfo this peculiarity, that the lurname is always placed firf ; jult as in botanical books the generic name is always placed before the fpecitic name. The prænomen is always uled in addrelling a perfon; and it is changed feveral times in the courle of life. A child receives at birth from its parents a name, which is retained till it has itfelf a fon arrived at maturity. A perfon again changes his name when he is invelted with any office; as alfo when he is advanced to a higher truft : fome, as emperors and pinces, acquire a new name after death. The names of women are lefs variable; they are in general borrowed from the moft bcautiful flowers.

After marriage, the wife is confined to her own apartment, from whence the hardly ever ftirs, except once a-year to the funeral-rites of her family; nor is fhe permitted to fee any man, except perhaps fome very near relation, and that as feldom as can be. The wives, as well as in China and other parts of the ealt, bring no portion with them, but are rather bought by the hurband of their parents and relations. 'The bridegroom moft commonly fees his bride for the firtt time upon her being brought to his houfe from the place of the nuptial ceremony: for in the temple where it is performed fle is covered over with a veil, which reaches from the head to the feet. A humband can put his wives to a more or lefs fevere death, if they give him the leaft caufe of jealoufy, by being feen barely to converfe with another man, or fuffering one to come into their apartment.

The drefs of the Japanefe deferves, more than that of any other people, the name of national ; lince they are not only different from that of all other men, bui are alfo of the fame form in all ranks, from the monarch to his meancf fubject, as well as in buth fexes; and what exceeds all credibility, they liave not been altered for at leaft 2444 years. They univerfally confilt of night-gowns, made long and wide, of which fe-

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veral are worn at once by all ranks and all ages The more diftinguifled and the rich have them of the fineft filk; the poorer fort of cotton. Thofe of the women reach down to the ground, and fometimes have a train; in the men, they reach down to the heels: travellers, foldiers, and labourers, either tuck them up, or wear them only down to the knees. 'The habit of the men is generally of one colour ; the women have theirs variegated and frequently with flowers of gold interwoven. In fummer, they are either without lining, or have but a thin one; in winter they are Aluffed to a great thicknefs with cotton or filk. The men feldom wear a great number ; but the women thirty, fifty, or more, all fo thin, that they fcarce together amount to five pounds. The undermoft ferves for a thirt, and is therefore either white or blue, and for the moft part thin and tranfparent. All the le gowns are faftened round the wailt with a belt, which in the men are about a hand's-breatth, in the women about a fuot; of fuch a length that they go twice round the wailt, and afterwards are tied in a knot with many ends and bows. The knot, particularly among the fair fex, is very confpicuous, and immediately intorms the fpectator whether they are married or not. The unmarried have it behind, on their back; the married befure. In this belt the men fix their fabres, faas, pipe, tobacco, and medicine boxes. In the neck the gowns are always cut sound, without a collar; they therefore leave the neck bare; nor is it covered with cravat, cloth, or any thing elfe. The fleeves are always ill made, and out of all proportion wide: at the opening before, they are half fewed up, fo that they form a lack, in which the hands can be put in cold weather; they alfo ferve for a pocket. Girls in particular have their fleeves fo long that they reach down to the ground. Such is the fimplicity of their habit, that they are foon dreiled; and to undrefs, they need only open their girdle and draw in their arms.

As the gowns, from their length, keep the thighs and legs warm, there is no occafion for fockings; nor do lisey ufe them in all the enipire. Among poorer perfons on a journey, and among foldiers, who have not fuch long gowns, one fees bufkins of cotton. Shoes, or, more properly fpeaking, Alippers, are of all that is worn by the Japanefe, the fimpleil, the meanelt, and the moft miferable, though in general ufe among high and low, rich and poor. They are made of interwoven rice-itraw ; and fometimes, for perfons of diftinction, of reeds fplit very thin. They conifit only of a fole, without upper leathers or quarters. Before, there pafies over, tranfverfely, a bow of linen, of a finger's breadth: from the point of the fhoe to this bow goes a thin round band, which running within the great toe, ferves to keep the floe fixed to the foot. The lhne being without quarters, flides, during walking, like a lipper. Travellers have three bands of twifted Atraw, by which they falten the fhoe to the foot and leg, to prevent its falling off. The Japanefe never enter their houfes with thoes, but put them off in the entrance. 'Ih is precaution is taken for the fake of their neat carpets. During the time the Dutch refide in Japan, as they have fometimes occafion to pay the natives vifits in their houfes, and as they have their own apartment at the factory covered with the fame fort of carpets, they do not wear European hoes, but have in
their flead red, grien, or black lippers, which can eafily be put off at entering in. I hey, however, wear ftockings, with thoes of cotton, fallened by buckles. Thefe thoes are made in Japan, and may be walhed whenever they become dirty.

The way of drefling the hair is not lefs peculiar to this people, and lets univerfa!ly prevalent among them, than the ule of their long gowns. The men nate the head from the furehead to the neck; and the hair remaining on the temples, and in the nape, is well befreared with oil, turned upwards, and then tied witi a white paper thread, which is wrapped round feveral times. The ends of the hair beyond the head, are cut crofs-ways, about a finger's length being left. This pant, after being pafled together with oil, is bent in fuch a manner that the point is brought to the crown of the head; in which fituation it is fixed by paffing the fame thread round it once. Women, except fuch as happen to be feparated from their hufounds, flave no. part of their head.

The head is never covered with hat or bonnet in winter or in fummer, except when they arc on a journey; and then they nfe a conical liat, made of a fort of grafs, and fixed with a ribband. Some travelling wumen, who are met with on the roads, have a bonnet like a ilaving bafon inverted on the head, which is made of cloth, in which gold is interwoven. On other occafiuns, their naked heads are preferved, both from rain and the fun, by umbrellas. "Iravellers, moreover, have a fort of riding-coat, made of thick paper oiled. They are worn by the upper fervants of princes, and the fuite of other travellers. Dr Thunberg and his fellow-travellers, during their journey to court, were -obliged to provide fuch for their attendants when they paffed through the place where they are made.

A Japanele always has his arms painted on one or more of his garments, efpecially on the long and fhore gowns, on the Aleeves, or between the houlders; fo that nobody can feal them; which otherwife might eatily happen in a country where the clothes are lo much alike in fluff, flape, and fize.

The weapons of the Japanefe confilt of a bow and arrows, fatre, halbert, and mulket. The bows are very large, and the arrows long, as in China. When the bows are to be bent and difcharged, the truop always refts on one knee, which hinders them making a fpeedy difcharge. In the fpring the troops allemble to practile fhooting at a mark. Mufkets are not genesal ; Dr 'limuberg only fas them in the luands of perfons of $\mathrm{d}_{1}-$ flinction, in a feparated and elevated part of the audience room. The barrel is of the comnion length; but the flock is very fhort, and there is a match in the loct. The fabre is their principal and belt weapon, which is univerfally worn, except by the pealants. They are commonly a yard long, a little crooked, and thick in the back. The blades are of an incomparable goodnefs, and the old ones are in very high efteem. They are far fuperior to the Spanih blades fo celebrated in Europe. A tolerably thick nail is eafily cut in two without any damage to the edge ; and a man, according to the account of the Japanefe, may be cleft afunder. A feparate fafh is never ufed, but the fword is tluck in the belt, on the left fide, with the edge upwards, whicls to a European appears ridiculuas. All perfons in office wear two fuch fabres, one of their own, and the other the fword of office, as it is called; the latter is always the longer. Both are worn in the belt on the fame fide, and fo difpofed as to crols each other. When they are fitting, they have their fword of office laid on one fide or before then.

The fciences are very far from haring arrived at the fame height in Japan as in Europe. The hintory of the country is, nctwidhlanding, more authentic, perhaps, than that of any other country; and it is fludied, without diftinction, by all. Agriculture, which is confidered as the art moll neceliary, and molt conducive to the fupport and profperity of the kingdom, is nowhere in the world brought to fuch perfection as here; where neither cisil nur foreigu war, nor emigration, diminithes population; and where a thought is never cntertained, either of scting poffeffion of other countries, or to import the ufelefs and often hurtful productions of foseign lands; but where the utmoft care is taken that no turi lies uncultivated, and no produce of the earth unemployed. Aftronomy is purfued and refpected; but the natives are umable, "ithout the aid of Chinefe, and fometimes of Dutch almanacks, to form a true kalendar, or calculate an eclipfe of tbe fun or moon within minutes, and feconds. Medicine has neither arrived, jor is it likely to arsive, at any degree of perfection. Anatomy is totally unknown; the knowledge of diíeafes imperfect, intricate, and often fabulous. Botany, and the knowlcdge of medicines, conftitutc the whole of their $\mathfrak{f k}$ ill. They ufe only fimples; and thefe generally in diuretic and diaphoretic decolions. Tliey are unarquainted with compound medicines. Their phyficians alirays indeed feel the pulfe; but they are very tedious, not quitting it for a quarter of an hour; befides, they examine firll one, and then the other arm, as if the blood was not driven by the fame heart to both pulfes. Befides thofe difeafes which they have in common with other countries, or peculiar to themfelves, the venereal difeafe is very frequent, which they only underllood how to alleviate by decuctions, thought to purify the blood. Salivation, which their phyficians have heard mantiomed by the Dutch furgeons, appears to them exiremely formidable, both to conduct and to undergo; but they have lately learned the art of employing the fublimate with much fuccefs. - Jurifprudence is not an extenfive fludy in Japan. No country t.as thinuer law-books, or fewer judges. Explanations of the law, and adrocates, are things altogether unknown; but nowlere, perhaps, are the laws more ceriainly put in force, without refpect to perlons, without fartiality or violence. They are very ftrict, and lawfuits very flort. The Japanefe know little more of phyfics or chemiftry than what they have learned of late years of the Europeans.

Their computation of time takes its rife from Min-o, or 660 ycars before Chrift. The year is divided according to the changes of the moon; fo that fome years confift of twelve, and others of thirten, months; and the beginning of the year falls out in February or March. They have no weeks confifting of feven days, or of fix working days, and a holiday; but the firt and fiftentl? days of the month ferve for holidays. On thele days no work is done. On new-year's-day they go round to wifh one another a new-year, with their whole families, clad in white and blue chequered, their hnliday-drefs; and they reft almoft the whole of the
frft month. The day is divided only intotwelve hours; and in ti.is divitun they are directed the whole year by the rifing and fetting of the fun. They reckon fix o'clock at the rining, and fix likewife at the fetting of the fun. Nid-day and mid-night are always at nine. Time is not mealured by clocks or hour-glates, but with buming matches, which are twitted together like ropes, and divided by knots. When the match is burnt to a knot, which indicates a certain portion of time elapfed, notice is given during the day, by ftriking the bells of the temples; and in the night, by the watch. men friking two boards againf one another. A child is always reckoned a year old at the end of the year of his birth, whether this happen at the beginning or the clofe. A few days after the beginning of the year, ic performed the horrid ceremony of trampling on image; reprefenting the crofs and the Virgin Mary with her cliild. 'The images are of melted copper, and are faid to be fearce a foot in height. This ceremony is intended to imprefs every individual with hatred of the Chriftian doctrine, and the Portuguefe, who attempted to introduce it there ; and alfo to difcover whether there is any remnant of it left among the Japanefe. It is performed in the places where the Chrifians chiefly refided, In Nagafaki it lafts four days; then the images are conveyed tu the circumjacent places, and afterwards are laid afide againt the next year. Every perfon, except the Japanefe governor and his attendants, even the fmalleft child, muft be prefent; but it is not true, as fome have pretended, that the Dutch are alfo obliged to trample on the image. Overfeers are appointed in every place, who affermble the people in companies in certain houfes, call over the name of every one in his turn, and take care that every thing goes on properly. The children, not yet able to walk, have their feet placed upon it ; older perfons pals over it from one fide of the room to the other.

The Japanefe are much addicted to poetry, mufic, and painting : the firf is faid to be grand as to the Ayle and imagery, loftinels, and cadence; but, like that of the Chinefe, is not eafily underfood or relifhed by the Europeans. The fame may be faid of their mufic, both vocal and inftrumental; the beft of which, of either kind, would hardly be tolerable to a nice European ear.

They pretend, like the Chinefe, to have been the inventors of printing from time immemorial, and their method is the lame with theirs on wooden blocks; but they excel them in the neatnefs of cutting them, as well as in the goodnefs of their ink and paper. They likewife lay claim to the inverition of gunporder ; and are vaftly fuperior to the Chinefe in the ufe of all Sorts of fire-anns, efpecially of artillery, as well as the curiournefs of their fire-works.

Their nanner of writing is much the fame as that of the Chinefe, viz. in columns from top to bottom, and the columns beginning at the right and ending at the left hand. Their characters were alfo originally the fame, but now differ confiderably.

Their language hath fome aftinity with the Chinefe, though it appears from its various dialects to have been a kind of compound of that and other languages, derived from the various nations that frit peopled thofe iflands. It is not only very rcgular, polite, elegant, and copious, but abounds with a great variety of $\int_{y}$ -

Japan. nonvma, adapted to the nature of the fubject they are upon, whether fublire, familiar, or low; and to the quality, age, and fex, both of the fpeaker and perfon fpoken.

The Japanefe are cormonly very ingenious in mon handicraft trades; and excel even the Chinefe in fereral manufacures, particularly, in the beauty, goodnefs, and variety of their filks, cottons, and other ftuff, and in their Japan and porcelain wares. No eaftern nation comes up.to them in the tempering and fabricating of -cimitars, fwords, mukets, and other fuch weapons.

The Japanefe architecture is much in the fame tafte and ftyle as that of the Chinele, efpecially as to their temples, palaces, and other public buildings; but in private ones they affect more plainnefs and neatnefs than thow. Thefe laft are of wood and cement, confilling of two fories: they dwell only in the lower; the upper chamber ferving for wardrobes. The roofs are covered with rull-mats three or four inches thick. In every houfe there is a fmall court, ornamented with trees, firubs, and flower-pots; as likewife with a place for bathing. Chimneys are unknown in this country, although fire is needed from the cold month of Ottober till the end of March. They heat their rooms with charcoal contained in a copper ftove, which they fit round. Their cities are generally fpacious, having each a prince or governor refiding in them. The capital of Jeddo is 21 French leagues in circumference. Its flreets are ftraight and large. There are gates at little diftances, with an extremely high ladder, which they afcend to difcover fires. Villages differ from cities in having but one flreet; which often extends feveral leagues. Some of them are fituated fo near each other, that they are only feparated by a river or a bridge. The principal furniture of the Japanefe confifts in flrawmats, which ferve them for feats and beds; a fmall table for every cne who choofes to eat is the only moveable. The Japanefe fit always upon their hams. Before dinner begins, they make a profound bow and drink to the health of the guefts. The women eat by themfelves. During the courfes, they drink a glafs of fakki, which is a kind of beer made of rice kept confantly warm; and they drink at each new morfel. Tea and fakki are the moft favourite drink of this people ; wine and firits are never ufed, nor even accepted when offered by the Dutch. Sakki, or rice beer, is clear as wine, and of an agreeable tafte: taken in quantity, it intoxicates for a few moments; and caules headach. Both men and women are fond of tobacco, which is in univerfal yogue and fmoked continually. The gardens about their houfes are adorned with a variety of howers, trees, rerdure, baths, terraces, and other embellifhments. The furniture and decorations of the houfcs of ferfons of diftinction confift in japar-work of warious colours, curious paintings, beds, couches, ffreens, cabinets, tables, a rariety of porcelain jars, vafes, tea-equipage, and other vefiels and figures, together with fwords, guns, fcimitars, and other arms. Their retinues are more or lefs numerous and fplendid according to their rank; but there are few of the lords who have lefs than 50 or 60 men richly clad and armed, fome on foot, but moft on horfeback. As for their petty kinge and frinces, they are feldom feen without 300 er 200 at

Lenl, when they either wait on the emperor, which is one-half of the year, or attend him abroad.

When a prince or great man dies, there are commonly aboct 10,20 , or more youths of his houfehold, and furh as were his greatefl favourites, who put themfelves to a voluntary deati, at the place where the body is buried or burned: as foon as the funeral pile, conlifting of odoriferous woads, sums, fpices, oiks, and other ingredients, is fet on fire, the relations and friends of the deceafed throw their prefents into it, fuch as clothes, arms, victuals, money, fiveet herbs, flowers, andother things which they imagine will be of ufe to him in the other world. Thofe of the middle or lower rank commonly bury their dead, without any other burning than that of fome odoriferous woods, gums, \&cc. The fepulchres in which the bones and althes of perfors of rank are depofited, are generally very magnificent, and fituated at fome difance from the towns.

The Dutch and Chinefe are the only nations allowed to traffic in Japan. The Dutch at prefent Send but two fhips annually, which are fitted out at Batavia, and fail in June, and return at the end of the year. The chief merchandife is Japanefe copper and raiv camphor. The wares which the Dutch company import are, coarfe fugar, ivory, a great quantity of tin and lead, a little caft iron, various kinds of fine chintzes, Dutch cloth of different colours and finenefs, ferge wood for dyeing, tor-toife-fhell, and cof/us Arcbicus. The little merchandife brought by the officers on their own account, confifits of faffron, theriaca, fealing-wax, glafs-beads, watches, \& \& c. \&c. About the time when the Dutch fhips are expected, feveral outpofts are fatigeed on the higheft hills by the government; they are provided with telefcopes, and long before their arrival give the governor of Nagafaki notice. As foon as they anclior in the harbour, the upper and under officers of the Japanefe immediately betake themfelves on board, togeti:er with interpreters; to whom is delivered a cheft, in whicli all the failors books, the mufter-roll of the whole crew, fix fmall barrels of porder, fix barrels of ball:, fix mulkets, fix bayonets, fix piltols, and fix fwords are depofited; this is fuppofed to be the whole remaining asmunition after the imperial garrifon has been faluted. Thefe things are conveyed on fhore, and preferved in a feparate warehoufe, nor are they returned before the day the thip quits the harbour.

Duties are quite unknown as well in the inland part as on the coaft, nor are there any culforas required cither for exported or imported goods; an advantage enjoyed by ferr nations. But, to prevent the importation of any forbidden wares, the utmont vigitance is obferved; then the men and things are examined wish the eyes of Argus. When any European goes on faore, he is examined before he leaves the thip, and afterwards on his landing. 'This double fearch is exceedingly Atric ; fo that not only the pockets and clothes are ftroaked with the hands, but the padenda of the meaner fort are prefied, and the hair of the llaves. All the lapanefe who come on board are fearched in like manner, except only their fuperior offceas: fo allo are the wares either exported or imported, frat on board, and then at the factory, except the great che?f, whicls are orened at the facoory, and fo carefully cwamined that

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Japan: $\underbrace{\text { J.p.mninge }}$
they nike the very fides left they fold be hollow. The bed-clothes are often opened, and the feathers examined: rods of iron are run into the pots of batter and confections: a fquare hole is made in the cheefe, and a long pointed iron is thrum into it in all directons. 'Their fufpicion is carried fo far, that try take out and break one or two of the eggs brought from Batavia.

The interpreters are all natives; they Speak Dutch in different degrees of purity. The government permites no foreigner to learn their language, left they thould by means of this acquire the knowledge of the manufactures of the country ; but 40 or 50 interpreters are provided to leave the Dutch in their trade, or on any other occafion.

The interpreters are very inquifitive after European books, and generally provide themflves with forme from the Dutch merchants. They perufe them with care, and remember what they learn. They befides endeavour to get infruction from the Europeans; for which purpole they aft numberlefs queftions, particularly reflecting medicine, phyfics, and natural history. Moll of them apply to medicine, and are the only physicians of their nation who practice in the European manner, and with European medicines, which they procure from the Dutch phyficians. Hence they are able to acquire money, and to make themfelves refpected.

Among the vegetable productions peculiar to Japan, we malty take notice of the aletris japonica, camellia japonica, and the volkameria japonica. The trumpetflower, or bignonia catalpa of Linnæus, is very common, bearing a refemblance to the epidendrum vanilla, the berries of which are laid to conftitute an article of commerce. Here aldo we find the nimofa arborea, and tallow tree, together with the plantain, cocoa-nut tree, the chamcerops excelfa, and the cycas circinalis, adorning the woods near the lea fore.

It is a fingular circumftance, that in the whole empire of Japan, neither Sheep nor goats are to be met with, the goats being deemed pernicious to cultivation ; and the val quantities of fill and cotton with which it abounds, are confidered as an excellent fubititute for woo'. 'There are few quadrupeds of any kind, either liwine, hordes, or cattle, as the Japanele live upon fifth, poultry, and vegetables. Some wolves are len in the northern provinces; and foxes are confidered as demons incarnate.

Gold and filter abound in Japan, and copper richly impregnated with gold, which conftitutes the chief wealth of many provinces. Iron is faid to be fcarcer than any other metal, which of confequence they are not fond of exporting. Amber, fulphur, pit-coal, red agate, afbeftos, porcelain, clay, pumice and white marble, are alpo found in confiderable quantities; but, according to Kempfer, neither antimony nor mercury. As Europeans have Seldom vifited the interior parts of the country, the natural curiofities of Japan are but very little known.

Japan Earth. See Mimosa and Terra Japonica, Materia Medical Index.

JAPANNLNG, the art of varnilhing and drawing figures on wood, in the fame manner as is done by the natives of Japan in the Eaft Indies.

The fublances which admit of being japanned are

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almost every kind that are dry and rigid, or not too Japanning Hexible; as wood, metals, leather, and paper prespared.
Wood and metals do not require any other preparetion, but to have their furface perfectly even and clean : but leather flould be fecurely ftrained either on frames or on boards; as its bending or forming folds would otherwife crack and force off the coats of rarnilh : and paper thould be treated in the fame manner, and hare a previous flong coat of forme kind of fire; but it is rarely made the fubject of japanning till it is converted into papier macle, or wrought by other means into fuch form, that its original fate, particularly with refpect to flexibility, is loft.

One principal variation from the method formerly ufed in japanning is, the ufing or omitting any priming or undercoat on the work to be japanned. In the older practice, fuch priming was always unfed; and is at perefont retained in the French manner of japanning coaches and fruff-boxes of the papier machè ; but in the Bitmingham manufacture here, it has been always rejected. The advantage of using fuck priming or undercoat is, that it makes a raving in the quantity of varnish used ; because the matter of which the priming is compored fills up the inequalities of the body to be varnilaed ; and makes it ealy, by means of rubbing and waterpolishing, to gain an even furface for the rarmith : and this was therefore foch a convenience in the cafe of wood, as the giving a hardnefs and firmnefs to the ground was alto in the cafe of leather, that it became an eftablifhed method; and is therefore retained even in the inflance of the papier machè by the French, who applied the received method of japanning to that kind of work on its introduction. There is neverthelefs this inconvenience always attending the ufe of an undercoat of fize, that the japan coats of varnish and colour will be constantly liable to be cracked and peeled off by any violence, and will not endure near fo long as the bodies japanned in the fame manner, but without any fuck priming ; as may be eafily observed in comparing the wear of the Paris and Birmingham fnuff-boxes; which latter, when good of their kind, never peel or crack, or fuffer any damage, unless by great violence, and foch a continued rubbing as waftes away the fubflance of the varnilh; while the japan coats of the Parifians crack and Hl off in lakes, whenever any knock or fall, particularly near the edges, expofe them to be injured. But the Birmingham manufacturers, who originally practifed the japanning only on metals, to which the reafon above given for the fe of priming did not extend, and who took up this art of themfelves as an invention, of courfe omitted at frt the use of any fuch undercoat ; and not finding it more necefiary in the inftance of $p a$ pier machè than on metals, continue fill to reject it. On which account, the boxes of their manufacture are, with regard to the wear, greatly better than the French.
The laying on the colours in gum-water, inftead of varnifh, is aldo another variation from the method of japanning formerly practifed: but the much greater flrength of the work, where they are laid on in varnifl or oil, has occafioned this way to be exploded with the grcateft reafon in all regular manufactures: however, they who may practice japanning on cabinets, or other fuck pieces as are not expofed to much wear and violence,

Japanning. violence, for their amufement only, and confequently may not find it worth their while to encumber themfelves with the preparations neceflary for the other methods, may paint with water-colours on a:1 undercoat 1.id or the wood or other fubftance of which the piece to be japanned is formed; and then finithed with the proper coats of varnifh, according to the methods below taught : and if the colours are tempered with the itrongeft ifinglafs fize and honey, inflead of gumwater, and laid on very flat and cven, the work will not be much inferior in appearance to that done by the other mechod, and will laft as long as the old japan.

Of fapan Gromids.-The proper grounds are either fuch as are formed by the varnilh and colour, where the whole is to remain of one fimple colour; or by the parnih either coloured or without colour, on which Tome painting or other decoration is afterwards to be laid. It is neceffary, however, before we proceed to fpeak of the pasticular grounds, to fhow the manner of laying on the priming or undercoat, where any fuch is ufed.

This priming is of the fame nature with that called clear-coating, or vulgarly clear-coaling, practifed erroneoufly by the houfe-painters; and confifts only in laying on and drying in the moll even manner a compofition of fize and whiting, or fometimes lime intlead of the latter. The common fize has been generally ufed for this purpofe: but where the work is of a nicerkind, it is better to employ the glovers or the parchment fize; and if a third of ifinglafs be added, it will be ftill better, and, if not laid on too thick, muck 1efs liable to peel and crack. The work fhould be prepared by this priming, by being well fmoothed with the filk-ik in or glafs-thaver; and, being made thoroughly clean, fhould be bruhed over once or twice with hot fize, diluted with two-thirds of water, if it be of the common firength. The priming thould then be laid on with a brulh as even as polfible; and fhould be formed of a fize whofe confiftence is betwixt the commors kind and glue, mixed with as much whiting as will give it a fufficient body of colour to hide the furface of whatever it is laid upon, but not more.

If the furface be very clean on which the priming is ufed, two coats of it laid on in this manner will be fufficient ; but if, on trial with a fine wet rag, it will not receive a proper water polifh on account of any inequalities not fufficiently filled up and covered, two or more coats muft be given it : and whether a greater or lefs number be ufed, the work fhould be fmoothed, after the laft coat but one is dry, by rubbing it with the Dutch rufhes. When the laft coat is dry, the water polifh fhould be given, by paffing over every part of it with a fine rag gently moiltened, till the whole appear perfectly plain and even. The priming will then be completed, and the work ready to receive the painting or coloured varnith; the reft of the proceedings being the fame in this cafe as where no priming is ufed.
When wood or leather is to be japanned, and no priming is ufed, the beft preparation is to lay two or thrse coats of coarfe varnifh compofed in the following manner :
-" Take of rectified fpirit of wine one pint, and of Vol. XI. P'art I.
coarfe feed-lac and refin each two ounces. Difiolve the Japarning. feed-lac and refin in the fpirit; and then ftrain off the varnifh."
This varnith, as well as all others formed of fpirit of wine, mult be laid on in a warm place; and, if it can be conveniently managed, the piece of work to be varnifhed fhould be made warm likewife : and for the fame reafon all dampnefs fhould be avoided; for either cuid or moiture chills this kind of varnith, and prevents it taking "proper loold of the fubftance, on which it is laid.
When the worl is fo prcpared, or by the priming with the compolition of fize and whiting above defcribed, the proper japan ground muft be laid on, which is much the belt formed of thell-lac yarnith, and the colour delired, if white be not in queftion, which demands a peculiar treatment, or great brightnefs be not required, when alfo other means muft be purfued.

The colours ufed with the thell-lac varninh may be any pigments whatever which give the teint of the ground defired; and they may be mixed together to form browns or any compound colours.

As metals never require to be undercoated with whiting, they may be treated in the fame manner as wood or leather, when the undercoat is omitted, except in the inflances particularly fpoken of below.
White FIAPAN Grounds.-The forming a ground perfectly white, and of the firft degree of hardnefs, remains hitherto a defideratum, or natter fought for, in the art of japanning, as there are no fubflances which form a very hard varrifh but what have too much colour not to deprive the whitenefs, when laid on of a nue thicknefs over the work.

The nearefl approach, however, to a perfect white varnifh, already known, is made by the following conupofition.
"Take flake white, or white lead, wafhed over and ground up with a fixth of its weight of flarch, and then dried; and temper it properly for fpreading with the maflich varnifh prepared as under the article Varnish.
"Lay thefe on the body to be japauned, prepared either with or without the undercoat of whiting, in the manner as above ordered; and then varnilh it over with five or fix coats of the following varnilh:
" Provide any quantity of the beft feed-lac; and pick out of it all the cleareft and whiteft grains, referving the more coloured and fouler parts for the coarfe varnifhes, fuch as that ufed for priming or preparing wood or leather. Take of this picked feed-lac two ounces, and of gum-animi three ounces; and dif. folve them, being previoully reduced to a grofs powder, in about a quart of firit of wine; and ftrain off the clear varnifh."

The feed-lac will yet give a flight tinge to this compofition ; but cannot be omitted where the varnifh is wanted to be hard; though, when a fofter will anfwez the end, the proportion may be diminilhed, and a little crude turpentine added to the gum animi to take of the brittlenefs.

A very good varnifh, free entirely from all brittlenefs, may be formed by diffolving as much gum-animi as the oil will take, in old nut or poppy oil; which muft be made to boil gently when the gum is put into it. The
ground

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$\underbrace{\text { Japanning. ground of white culour itfelf may be laid on in this }}$ ramilh, and then a coat or two of it ray be put over the ground; but it muft be well diluted with oil of turpentive when it is ufed. This, though free from brittlenefs, is neverthelefs liable to fuffer by being indented or bruifed by any flight ftrokes; and it will not twell bear any polifh, but may be brought to a very fmoot! furface without, if it be judicioully managed in the laying it on. It is likewife fomewhat tedious in drying, and will require fome time where feveral coats are laid on; as the laft ought not to contain much oil of turpentine.

Biue '̂APAN Grounds.-Blue japan grounds may be formed of bright Prufian blue, or of verditer glazed over by Prufian blue, or of fmalt. The colour may be beft mixed with fhell-lac warnifh, and brought to a polifhing Itate by five or fix coats of varnih of feedlac: but the varnith, neverthelefs, will fomerrhat injure the colour by giving to a true blue a caft of green, and fouling in fome degrec a warm blue by thc yellow it contains: where, thereforé, a bright blue is required, and a lefs degree of hardnefs can be difpenfed with, the method before directed in the cafe of white grounds mult be purfued.
Red Yipan Grounis.-For a fcarlet japan ground, vermilion may be ufed : but the vermilion has a glaring effect, that renders it much lefs beautiful than the crimfon produced by glazing it over with carmine or fine lake: or even with rofe-pink, which has a very yood effect ufed for this purpofe. For a very bright crimfon, neverthclefs, inflead of glazing with carmine, the Indian lake flould be ufed, diffolved in the fpirit of which the varnifh is compounded, which it readily admits of when good: and, in this cafe, inflead of glazing with the thell-lac varnill, the upper or polifhing coats need only be ufed; as they will equally receive and convey the tinge of the Indian lake, which may be actually diffolved by firit of wine: and this will be found a much cheaper method than the ufing carmine. If, neverthelefs, the higheft degree of brightnefs be required, the white varnifthes muft be ufed.

Tellow, $Y_{A P A N}$ Grounds.-For bright yellow grounds, the king's yellow, or the turpeth mineral, hould be employed, either alone or mixed with fine Dutch pink: and the effect may be fill more heightened by diffolving powdered turmeric root in the fpirit of wine of which the upper or polifhing coat is made; which firit of wine muft be frained from off the dregs before the feed-lac be added to it to form the varnifl.

The feed-lac varnilh is not equally injurious here, and with greens, as in the cafe of other colours; bevaufe, bcing only tinged with a reddith yellow, it is little more than an addition to the force of the colours.

Yellow grounds may be likewife formed of the Dutch pink only'; which, when good, will not be wanting in brightnefs, though extremely cheap.

Green YapAN $^{\prime}$ Grounds.-Green grounds may be produced by mixing the king's yellow and bright Pruffian hlue, or rather the turpeth mineral and Pruflian blue; and a cheap, but fouler kind, by verdegris with a little of the above-mentioned yellows, or Dutch pink. But, whe:e a very bright green is wanted, the cryftals of verdegris, called diffilled verdegris, fhould be employed; and to heighten the effeet, they hould be laid on a
ground of leaf-gold, which renders the colour extreme-Japanaing. ly trilliant and pleafing.

They may any of them be ufed fuccefffully with good feed-lac varnifh, for the reafon before given; but will be litl brighter with white varnim.

Orange-coloured YAPAN Grounds.-Orange-coloured japan grounds may be formed by mixing vermilion or red-lead with king's yellow, or Dutch pink; or the orange-lac, which will make a brighter orange groind than can be produced by any mixture.
Purple GAPAN Grounds.-Purple japan grounds may be produced by the mixture of lake and Piultian blue ; or a fouler kind, by vermilion and Pruffian blue. They may be treated as the reft with refpect to the varnifh.
Black Yapan Grounds to be produced wiild Heat.Black grounds may be formed by either ivory-black or lamp black: but the former is preferable where it is perfectly good.

Thefe may be always laid on with fhell-lac rarnill ; and have their upper or poliflhing coats of common feed-lac varnifl, as the tinge or fulnefs of the varnilh cąn be here no injury.
Common Black Y $_{\text {APAN }}$ Grounds on Iron or Copper, produced by means of Heat.-For forming the common black japan grounds by means of heat, the piece of work to be japanned mult be painted over sith drying oil; and, when it is of a moderate drynefs, muft be put into a flove of fuch degree of heat as will change the oil to black, without burning it fo as to deftroy or weaken its tenacity. The fore fhould not be too hot when the work is put into it, nor the heat increafed too faft ; either of which errors would make it blifter : but the flower the heat is augmented, and the longer it is continued, provided it be reftrained within the due degree, the harder will be the coat of japan. This kind of varnih requires no polilh, having received, when properly managed, a fufficient one from the heat.

The fine Tortoife-ßell $\mathcal{F}_{A P A N}$ Ground produced by means of Heat.-The bef kind of tortoife-fhell ground preduced by heat is not lefs valuable for its great bardnefs, and enduring to be made hotter than boiling water without damage, than for its beautiful appearance. It is to be made hy means of a varnilh prepared in the following manner :
"Take of good linfeed oil one gallon, and of umbre half a pound: boil them together till the oil become very brown and thick: Atrain it then through a coarfe cloth, and fet it again to boil; in which flate it mult be continued till it acquire a pitchy confiftence; when it will be fit for ufe."

Having prepared thus the varnifh, clean well the iron or copper plate or other piece which is to be japanned; and then lay vermilion tempered with fhelllac rarnifh, or with drying oil diluted with oil of turpentine, very thinly, on the places intended to imitate the more tranfparent parts of the tortoife. Shell. When the vermilion is dry, brufl over the whole with the black varnifi, tempered to a due coniffence with oil of turpentine; and when it is fet and firm, put the work into a ftove, where it may undergo a very flrong heat, and muft be coltinued a confiderabla time; if even three weeks or a month, it wil! be the better.

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This was given amongh other receipts by Kunchel ; but appears to lave been neglected till it was revived with great fuccefs in the Birminghan manufactures, where it was not only the ground of fnuff-boxes, drefs-ing-boves, and other fuch lefier pieces, but of thofe beantiful tea-waiters which have been fo juftly ctteemed and admised in feveral parts of Europe where they lave been fent. This ground may be decorated with painting and gilding, in the fame manner as any other varnilhed furface, which had beft be done after the ground has been duly hardened by the hot flove; but it is well to give a fecond annealing with a more gentle heat after it is finihed.

Method of Painting đ̛ap.av Work.-Japan work ought properly to be painted with colours in varnifl, though, in order for the greater difpatch, and, in fome very nice works in frall, for the freer ufe of the pencil, the colours are fometimes tempered in oil; which fhould previoully have a fourth part of its weight of gumanimi difiolved in it; or, in default of that, of the gums fandarac or maftich. When the oil is thus ufed, it fhould be well diluted with fpirit of turpentine, that the colours may be laid more evenly and thin; by which means, ferrer of the polifhing or upper coats of varnift become neceflary.

In fome initances, water-colours are laid on grounds of gold, in the manner of other paintings; and are beft, when fo ufed, in their proper appearance, without any varnilh over them; and they are alfo fometimes fo managed as to have the effect of emboffed work. The colours employed in this way, for painting, are both prepared by means of ifinglafs fize corrected with honey or fugarcandy. The body of which the embofied work is raifed, need not, however, be tinged with the exterior colour ; but may be belt formed of very ltrong gum-water, thickened to a proper confiffence by bolearmenian and whiting in equal parts; which being laid on the proper figure, and repaired when dry, may be then painted with the proper colours tempered in the ifinglafs fize, or in the general manner with thell-lac varnifh.

Manner of Varniking Gapan Word.-The laft and finifhing part of japanning lies in the laying on and polifhing the outer coats of varuith; which are neceffary, as well in the pieces that have only one fimple ground of colour, as with thofe that are painted. This is in general beft done with common feed-lac varnith, except in the inftances and on thofe occafions where we have already fhown other methods to be more expedient : and the fame reafons which decide as to the fitnefs or impropriety of the varnifnes, with refpect to the colours of the ground, hold equally with regard to thofe of the painting: for where brightnefs is the moft material point, and a tinge of yellow will injure it, feed-lac muft give way to the whiter gums; but where hardnefs, and a greater tenacity, are moft effenti3l, it muft be adhered to ; and "here both are fo neceflary, that it is proper one fhould give way to the other in a certain degree reciprocally, a mixed raminh mult he adopted.
This mixed raminh, as we have already obferved, thould be made of the picked feed-lac. The common feed-lac varnim, which is the moft ufetul preparation of the kind bitherto invented, may be thus mede:
" Take of feed-lac thrce ounces, and put it into Jomanding. water to free it from the ficks and filth that are frequently intermixed with it ; and which mult be done by firring it about, and then pouring off the water, and adding freft quantities in order to repeat the operation, till it be freed from all impurities, as it very effectually may be by this means. Dry it then, and powder it grofsly, and put it, with a pint of rectified Fpirit of wine, into a bottle, of which it will not fill above two-thirds. Shake the mixture well together; and place the bottle in a gentle heat, till the feed apuear to be diffolved ; the fhaking being in the mean time repeaicd as often as may be convenient : and then pour ofi all that can be obtained clear by this method, and ftrain the remainder througl a coarle cloth. The varnifh thus prepared nuuft be kept for ufe in a bottle well ftopt."

When the firit of wine is very ftrong, it will dif. folve a greater proportion of the feed-lac: but this will faturate the common, which is feldom of a frength fufficient for making varnifhes in perfection. As the chilling, which is the molt inconvenient accident attending thofe of this kind, is prevented, or produced more frequently, according to the frength of the fpirit; we thall therefore take this opportunity of flowing a method by which weaker reatified firis may with great eafe, at any time, be freed from the phlegm, and iendered of the firf degree of ftrength.
"Take a pint of the common rectified firit of wine, and put it into a bottle, of which it will not fill above three parts. Add to it half an ounce of pearlathes, falt of tartar, or any other alkaline falt, heated red-hot, and powdered, as well as it can be without much lo!s of its heat. Shake the mixture irequently for the fpace of half an hour; before which time, a great past of the phlegm will be feparated, from the fpirit, and will appear, :ogether with the undifolved part of the falts, in the bottom of the bottle. Let the fipirit then be poured off, or freed from the phlegm and falts, by means of a tritorium or feparating funnel; and let half an ounce of the pearl-afles, heated and powdered as before, be added to it, and the farme treatment repeated. This may be done a third timue, if the quartity of phlegm feparated by the addition of the pearl-aflies appear confiderable. An ounce of alum reduced to powder and made hot, but not burnt, mult then be put into the fpirit, and fuffered to remain fome hours; the bottle being frequently flazen: after which, the ipirit, being poured off from it, will be fit for ufe."

The addition of the alnm is neceflary, to neutralize the remains of the alkaline falt or pearl-athes; which would otherwife greatly deprave the fpirit with refpeest to varnithes and laquer, where vegetable colours are concerned; and mult confequently render another diftillation neceflary.

The manner of ufing the feed-lac or white varniftes is the fame, except with regard to the fubfance ufed in polifhing; which, where a pure white or great clearnefs of other colours is in queftion, thould be itfelf white: whereas the browner forts of polining duit, as being cheaper, and doing their bufinefs with greater difpaich, may be ufed in other cafes. The pieces of worh to be varmified flould be placed near à fire, or in a roonı where there is a fove; and nade perfectiv

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Fapaning, dry; and then the varnifh may be rubbed over them lapheth. by the proper bruhes made for that purpofe, beginning in the middle, and paffing the brulin to one end; and then with another ftroke from the middle, paffing it to the other. But no part hould be croffed or twice paffed over, in forming one coat, where it can pollibly be avoided. When one coat is dry, another muft be laid over it; and this mutt be contimued at leaf five or fix times, or more, if on trial there be not fufficient thicknefs of rarnifh to bear the polilh, without laying bare the painting or the ground colour underneath.

When a fufficient number of coats is thus laid on, the work is fit to be polifhed: which muft be done, in common cafes, by rubbing it with a rag dipped in Tripoli or pumice-ftone, commonly called rotien fone, finely powdered: but towards the end of the rubbing, a little oil of any kind fhould be ufed along with the powder; and when the work appears fufficiently bright and glofly, it thould be well rubbed with the oil alone, to clean it from the powder, and give it a fill brighter lufte.

In the cale of white grounds, inflead of the Tripoli or pumice-Itone, fine putty or whiting mult be uled; both which floould be walhed over to prevent the danger of damaging the work from any fand or other gritty matter that may happen to be commixed with them.

It is a great improvement of all kinds of japan work, to harden the varnith by means of heat; which, in every degree that it can be applied fhort of what would burn or calcine the matter, tends to give it a more firm and ftrong texture. Where metals form the body, therefore, a very hot flove may be ufed, and the pieces of work may be continued in it a confiderable time; efpccially if the heat be gradually increafed; but where wood is in queltion, heat muft be fparingly ufed, as it would otherwife warp or fhrink the body, fo as to injure the general figure.

JAPHETH, the fon of Noah. His defcendants poffeffed all Europe and the illes in the Mediterranean, as well thole which belong to Europe, as others which depend on Afia. They had all Afia Minor, and the northern parts of Afia above the fources of the Tigris and Euphrates. Noah, when he bleffed Japheth, faid to him, " God fhall enlarge Japheth, and he fhall dwell in the tents of Shem; and Caлaan flall be his fervant." 'This bleffing of Noah was accomplithed, when the Greeks, and after them the Romans, earried their conquefts into Alia and Africa, where were the dwellings and dominions of Shem and Canaan.

The fons of Japheth were Gomer, Magog, Madai, Javan, Tubal, Mefhech, and Tiras. The feripture fays, "that they peopled the ifles of the Gentiles, and fettled in different countries, each according to his language, family, and people." It is fuppofed, that Gomer was the father of the Cimbri, or Cimmerians; Magog of the Scythians; Madai of the Macedonians or Medes; Javan of the Ionians and Greeks; Tubal of th. Tibarenians; Methech of the Mufcovites or Ruffians; and Tiras of the Thracians. By the inles of the Gentilec, the Hebrews underttand the ifles of the Mediterranean, and all the countries feparated by the
fea from the continent of Paleftine; whither alfo the Hebrews could go by fea only, as Spain, Gaul, Italy, Greece, Afia Minor.

Japheth was known by profane authors under the name of Japetus. The poets make him the father of heaven and earth. The Greeks believe that he was the father of their race, and acknowledged nothing more ancient than him. Befides the feven fons of Japheth above mentioned, the Septuagint, Eufebius, the Alexandrian Chronicle, and St Aulin, give him an eighth called Eliza, who is not mentioned either in the Hebrew or Chaldee, and the eaftern people affirm that Japheth had eleven children.

JAPYDIA, in Ancient Geography, a weftern diflrict of Illyricum, anciently threefold; the firft fapydia extending from the fprings of the Timavus to Itria; the fecond, from the river Arfia to the river Tedanius; and the third, called Inalpina, fituated in Mount Albius and the other Alps, which run out above Iftria. Japodes, or Japydes, the people. Now conttituting the fouth part of Carniola, and the weit of Auftrian Croatia.

JAPYGIA, Calabria anciently fo called by the Greeks. Japyges, the people.

JAPYGIUMI, in Ancient Geogrraply, a promontory of Calabria; called alfo Salentimum. Now Capo di S. Maria di Leuca.

JAQUELOT, IsaAc, a celebrated French Protelant divine, born in $16+7$, at Vafly in Champagne, where his father was minifter. The revocation of the edict of Nantz obliging him to quit France, he took refuge firt at Heidelberg, and then at the Hague, where he procured an appointment in the Walloon church. Here he continued till that capital was taken by the king of Pruffia, who, hearing him preach, made him his French minifter in ordinary at Berlin; to which city he removed in 1702. While he lived at Berlin, he entered into a warm controverfy with M. Bayle on the doctrine advanced in his dictionary favouring manichæifm, which continued until deatls inpofed filence on both parties: and it was in this dif. pute that M. Jaquelot openly declared in favour of the Remonftrants. He wrote, among other works, 1. Differtations fur l'exiftence de Dieu. 2. Differtations fur le Mefrae. 3. Lettres à Meffeurs les Prelats de l'Eglife Gallicane. He was employed in finifhing an important work upon the divine authority of the holy feriptures, when he died fuddenly in 1708 , aged 6I.

JAR, or JARr, an earthen pot or pitcher, with a big belly and two handles. - The word comes from the Spanifh jarra or jarro, which figninies the fame.

JAR is ufed for a fort of meafure or fixed quantity of divers things.-The jar of oil is from 18 to 26 gallons; the jar of green ginger is about 100 pounds weight.

JARCHI, Solomon, otherwife Rafchi and Ifanki Solomon, a famous rabbi, born at "Troyes in Champagne, who flourifhed in the 12th century. He was a perfect mafter of the talmud and gemara; and he filled the poftils of the bible with fo many talmudical reveries, as totally extinguified both the literal and moral fenfe of it. A great part of his commentaries are printed in Hebrew, and fome have been tranflated

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Jardyn into Latin by the Chritians. They are all greatly II Jarnat. eftcemed by the Jews, who have bettowed on the author the title of prince of commentators.

JARDIN, or Jardin, Karel du, painter of converfations, landfcapes, \&c. was born at Amfterdam in I $6+0$, and became a difciple of Nicholas Ecrehem. He travelled to Italy whilit he was yet a young man; and ariving at Rome, he gave himfelf alternately up to lludy and dilfipation. Yet, amidit this irregularity of conduct, his proficiency in the art was furpriling: and his paintings rofe into fuch high repute, that iney were exceedingly coveted in Rome, and bought up at great prices. With an intention to vifit his native city he at lalt leit Rome; but palling through Lyons, and meeting fome agreeable companions, they prevailed on him to tlay there for fome time, and he found as much employment in that city as he could poflibly undertake or execute. But the profits which arofe from his paintings were not proportionable to his profufion; and in order to extricate nimfelf from the encumbrances in which his extravagance had involved him, he was induced to mar. ry his hoftefs, who was old and difagreeable, but very rich. Mortified and afhamed at that adventure, he returned as expeditioully as poffible to Amiterdam, accompanied by his wife, and there for fome time followed his profeffion with full as much fuccefs as he had met with in Iraly or Lyons. He returned to Rome the fecond time; and after a year or two fpent there in his ufual extravagant manner, he fettled at Venice. In that city his merit was well known before his arrival, which procured him a very honourable reception. He lived there highly careffed, and continually employed; but died at the age of 38 . He was fumptuoully interred, out of refpect to his talents; and a!though a Proteftant, permitted to be laid in confecrated ground. This painter, in his colouring and touch, refembled his mafter Berchem; but he added to that manner a force which diftinguifhes the great mafters of Italy ; and it is obferved, that moft of his pictures feem to exprefs the wamth of the fun, and the light of mid-day. His pictures are not much encumbered; a few figures, fome animals, and a little landfcape for the back-grounds, generally comprife the whole of his compofition. However, fome of his fubjects are often more extenfive, containing more objects, and a larger defign. His works are as much fought after, as they are difficult to be met with.

JARGON, or Zircon, a kind of precious Stone found in Ceylon. This mineral contains a peculiar earth, called jargonia, or zirconia; for an account of the properties of wbich, fee Chemistry, page 6in; fee alfo Mineralogy Index.

JARGONIA, or Zirconia, in Chemiflry, a peculiar earth obtained from the preceding mineral. See Chimistry.f. 61 it.

JARIMUTH, JARnutir, or Ferimoth, Jofh. xv. a town reckoned to the tribe of Judah, four miles from Eleutheropolic, weftward, (Jerome.) Thought to be the fame with Ramoth and Remeth, Jofhua xis. and Nehem x. 2. (Reland).

JARNAC, a town of France, in Orleanois, and in Angumois, remarkable for a victory gained by Henry III. over the Huguenots in 1569 . It is feated on the river Charente, in W. Long. O. 13. N. I.at. 45.40.

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JAROSLOW, a handfome town of Poland, in Jaroflow the palatinate of Ruffia, with a Atrong citadel. It is remarkable for its great fair, its handfome buildings, and a battle gained by the Swedes in 1656 , after which they took the town. It is feated on the river Saine, in E. Long. 22. 23. N. Lat. 49. 58.

JASHER, The Book of. This is a book which Jofhua mentions, and refers to in the following pafo fage : " And the fun ftood Atill, and the moon ftayed. until the people had avenged themfelves upon their enem:es: is not this written in the book of Jallier ?"

It is difficult to determine what this book of Fajber, or "the upright," is. St Jerome and the Jews beliesed it to be Genefis, or fome other book of the Pentateuch, wherein God foretold he would do wonderful things in favour of his people. Huetius fuppofes it was a book of morality, in which it was faic that God would fubvert the courfe of nature in favour of thole who put their truit in him. Others pretend, it was public annals, or records, which were ityled jufice or upright, becaufe they contained a faithful account of the hiftory of the Ifraelites. Grotius belieres, that this book was nothing elfe but a fong, made to celebrate this miracle and this victory. This feems the more probable opinion, becaufe the words cited by Jolhma as taken from this work, "Sun; ftand thou ftill upon Gibeon, and thou moon in the valley of Ajalon," are fuch poetical exprefinons as do not fuit with hiftorical memoirs; befides that in the 21 book of Samuel (i. 18.) mention is made of a book under the fame title, on account of a fong made on the death of Saul and Jonathan.

JASIONE, a genus of plants belonging to the fyngenefia clais; and in the natural method ranking under the 29th order, Campanacea. See Botavy Index.
JASMINE. See Jasminum.
Arabian Jasming. See Nyctanthes, Botany Index.

JASMLNUM, Jismine, or Feffamine tree, a genus of plants belonging to the diandria clafs; and in the natural method ranking under the $44^{\text {th }}$ ? order, $S_{0}$ piarice. See Botany Index.

JASON, the Greek hero who undertook the $A_{-}$ gonautic expedition, the hiftory of which is obfcured by fabulous traditions, flourifhed about 937 B. C. See Argonauts.

JASPaCHATES. See Jade-stone, Mineralo. GY Inder.

JASPER, a fpecies of a mineral belonging to the argillaceous genus of ftones, and of which there are many varieties, fome of which being extremely beautiful, are much fought after, and employed as trinkets and ornaments. See Mineralogy Index.

JASPONIX, an old term in mineralogy, importing, as appears from the name, a compound of jafper and onyx.

JATROPHA, the cassada plast, a genus of plants belonging to the monocia clafs; and in the natural method ranking under the 3 8th order, Tricoccir. See Botany Index.

JAVA, a large illand of the Eaft Indies, lying between $105^{\circ}$ and $116^{\circ}$ E. Long, and from $6^{\circ}$ to $8^{\circ}$ S. Lat. extending in length , 00 miles, and in breadtis about : 20 . It is fituated to the fouth of Borneo, and
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fouth-eaftrom the peninfula of Malacca, having Sumatra lying before it, from which it is feparated by a narrow praftage, now fo fano:us in the world by the name of the Sirsits of Sunda. 'The country is mountainous and woody in the middle ; but a hat coaft, full of bors and marfhes, renders the air unhealthful. It produces pepper, indigo, fugar, tobacco, rice, coffee, cocoa-nuts, plantains, cardamoms, and other tropical fruits. Gold alfo, but in no great quantities, hath bcen found in it. It is diverfified by many mountains, woods, and rivers; in all which nature has very bountifully beflowed her treafures. Many of the mountains are fo bigh as to be feen at the diftance of a number of leagues. That which is called the Blue Mountain is by far the highefl of them all, and feen the farthell off at fea. They have frequent and very terrible earthquakes in this illand, which thake the city of Batavia and places adjacent, to fuch a degree, that the fall of the lioufes is expected every moment. The waters in the road are exceflively agitated, infomuch that their motion refembles that of a boiling pot; and in Come places the earth opens, which affords a flrange and terribie fpectacle. The inhabitants are of opinion, that thefe earthquakes proceed from the mountain Parang, which is full of fulphur, faltpetre, and bitumen. The fuits and plants of this inand are in their feveral kinds excellent, and almoft out of numter. There are abundance of forefts fcattered uver it, in which are all kinds of wild beafts, fuch as buffaloes, tygers, rhinocerofes, and wild horfes, with an infinite variety of ferpents, fome of them of an enormous fize. Crocodiles are prodigioufly large in Java, and are found chiefly about the mouths of rivers; for, being amphibious animals, they delight moftly in marfhes and fayannahs. This creature, like the tortoife, lays its eggs in the hot fands, without taking any further care of them; the fun hatches them at the proper feafon, when the young run inflantly into the water. There is, in fhurt, no kind of animal wanting here: fowls they have of all forts, and exquifitely good, efpecially peacocks, partridges, pheafants, wood-pigeons: and, for curiofity, they have the Indian bat, which differs little in form from ours; but its wings, when extended, meafure a full yard, and the body of it is of the fize of a rat. They have fills in great plenty, and very good; fo that for the value of three-pence there may be enough bought to dine fix or feven men. They have likewife a multitude of tortoifes, the fleih of which is very little inferior to veal, and there are many who think it better.

It is faid, that there are in the ifland upwards of 40 great torms, which, from the number of their inhabitants, would, in any other part of the world, merit the name of cilies; and more than 4500 villages, befides hamlets, and fraggling houfes, lying very near each other, upon the fea coaft, and in the neighbourhood of great towns: lience, upon a fair and moderate computation, there are within the bounds of the whole ifland, taking in perfons of both fexes, and of all ranks and ages, more than thirty millions of fouls; fo that it is thrice as populous as France, which, thdugh twice as big, is not computed to have more than twenty millions of inhabitants.

There are a great many princes in the illand, of which the moft confiderable are, the emperor of Ma-
teran, who refides at Katafura, and the lings of Bantam and Japara. Upon the firl of thefe many of the petty princes are dependant; but the Dutch are abColute mafters of the greateft part of the iland, particularly of the north coaft, though there are fonse of the princes beyond the mountains, on the fouth coaf, who ftill maintain their independency. The natives of the country, who are eltablithed in the neighbourhood of Batavia, and for a tract of about 40 leagues along the mountains of the country of Bantam, arc immediately fubject to the governor-general. The company fend droflards, or commifiaries, among them, who adminifter juflice and take care of the fublic revenues.

The city of Batavia is the capital not only of this ifland but of all the Dutch dominions in India. It is an exceeding fine city, fituated in the latitude of $\sigma^{\circ}$ fouth, at the mouth of the riser Jucatra, and in the bofom of a large commodious bay, which may be confidered not only as one of the fafeft harbours in India, but in the world. The city is furrounded by a rampart 21 feet thick, covered on the outfide with ftone and fortified with 22 baltions. This rampart is environed by a ditch 45 yards over, and full of water, efpecially when the tides are high, in the fpring. The avenues to the town are defended by feveral forts, each of which is well furnilled with excellent brafs cannon: no perfon is fuffered to go beyond thefe forts without a paffiport. The river Jucatra paffes through the midtt of the town, and forms 15 canals of running water, all faced with free-ftone, and adorned with trees that are ever green: over thefe canals are 56 bridges, befides thofe which lie without the town. The flreets are all perfectly fraight, and each, generally fpeaking, 30 feet broad. The houfes are built of fone, after the manner of thofe in Holland. The city is about a league and a half in circumference, and has five gates ; but there are ten times the number of houfes without that there are within it. There is a very fine town-houle, four Calvinift churches, befides other places of worlhip for all forts of religions, a Spin-huys or houfe of correction, an orphan houfe, a magazine of fea ltores, feveral for fpices, with wharfs and cord manufactories, and many other public buildings. The garrifon confilts commonly of between 2000 and 3000 men. Befides the forts mentioned above, there is the citadel of Batavia, a very fine regular fortification, fituated at the mouth of the river, and flarked with four baftions; two of which command the fea, and the other two the town. It is in the citadel that the governor-general of the Indies has his palace; over againft which is that of the director-general, who is the next perfon to the governor. The counfellors, and other principal officers of the company, have alfo their apartments there; as have likewife the playfician, the furgeon, and the apothecary. There are in it, befides, arfenals and magazines furnifhed with ammunition for many years. The city of Batavia is not only inhabited by Dutch, French, Portuguefe, and other Europeans, eftablifhed here on account of trade; but alfo by a vaft number of Indians of different nations, Javanefe, Chinefe, Malayans, Negroes, Amboynefe, Armenians, natives of the ifle of Bali, Mardykers or Topaffes, Macafiers, Timors, Bougis, \&c. Of the Chinele, there are, it is

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faid, about 180,000 in the ifland; of which near 30,000 refided in the eity till the ycar 1740 , when the Dutch, pretending that they were in a plot againit them, fent a body of troops into their quarter, and demanded their arms, which the Chinefe readily dclivered up; and the next day the governor fent another hody, with orders to murder and mafiacre every one of the Chinefe, men, women, and children. Some relate there were 20,000 , others 30,000 , that were put to death, without any manner of triai : and yet the barbarous cुovernor, who was the infrument of this cruel proceeding, had the affurance to embark for Europe, imagining he had amaxed wealth enough to fecure him againtl any profecution in Holland: but the Dutch, finding themfeives detefted and abhorted by all mankind for this piece of tyranny, endeavoured to throw the odium of it upon the governor, though he had the hands of all the council of Batavia, except one, to the order for the maffacre. The ftates, therefore, difpatched a packet to the Cape of Good Hope, containing orders to apprehend the governor, and fend him back to Batavia to be tried. He was accordingly apprehended at the Cape; but was never heard of afterwards. It is fuppofed he was thrown over-board in his pafaige to Batavia, that there might be no farther inquiries into the matter; and it is faid, all the wealth this merciful gentleman had amaffed, and fent over before him in four thips, was calt away in the paffage.

Befides the garrifon herc, the Dutch had formerly about 15,000 men in the ifland, cither Dutch, or formed out of the fevcral nations they had enflaved; and they had a fleet of between 20 and 30 men of war, with which they gave law to every power on the coaft of Afra and Africa, and to all the European powers that vifit the Indian ocean, unlefs we thould except the Britifh: it was, however, but a little before the rcrolution that they expclled us from our fettlement at Bantam.

IATELIN, in antiquity, a lort of fear five feet and an half long; the fhaft of which was of wood, with a fteel point.-Every foldier in the Roman armies had feven of thefe, which were very light and tlender.

JAWER, a city of Silcfia, capital of a prowince of the fame name, with a citadel, and a large fquare, furrounded with piazzas. It is 12 miles fouth-eaft of Lignitz, 30 fouth-welt of Brellau, and 87 eaft of Prag:e. E. Long. 16. 29. N. Lat. 50. 56.

JAUNDICE (derived from the French jaunifle "yellorraefs," of jaune ${ }^{\bar{b}}$ yellow"); a difeafe confitting in a fuffufion of the lile, and a rejection thereof to the furface of the body, whereby the whole exterior habit is difcoloured. Dr Maclurg is of opinion, that the bile returns into the circulation in this diforler by the courfe of the lymphatics. See Medicine Indes:
JAWS. See Manitie.
Locked $\mathrm{Y}_{4 n v}$, is a Spafmodic contraction of the lower jaw, commonly produced by fome exteinal injury affening the tendons or ligaments. See Medicine Inde:c.
Jay, fee Corvis, Ormitiol.ocy Index.
IAy, Guy Michach le, a French genteman, who diftinguifhed himfelf by caufing a polyglot bible to be
printed at his own expence in to vols folio: Lut he ruined himfelf by that impreffion, firft becaufe he would not fuffer it to appcar under the name of Cardinal Richelieu, who, after the example of Cardinal Ximencs, was ambitious of eternizing his name by this means; and next, becaufe he made it too dear for the Englifh market; on which Dr Walton undertook his polyglot bible, which, being more commodious, reduced the price of M. le Jay's. After the death of his wife, MI. le Jay took orders, was made dean of Vezelay in the Nivernois, and Louis XIV. gave him the poft of counfellor of frate.

1 aZER, or Jaser, in Ancient Geography, a Levitical city in the territory of the Amorrhites beyond Iordan, 10 miles to the weft, or rather fouth-welt, of Philadelphia, and 15 miles from Efebon, and therefore fituated betwcen Philadelphia and Helhbon, on the eaft border of the tribe of Gad, fuppofed to be the Yazorem of Jofephus. In Jeremiah xiviii. mention is made of the fea of Jazer, that is, a lake; taken either for an effufion or overflowing of the Arnon, it lake through which it paffes, or from which it takes its: rife.

IBERIA, Spain fo called by the ancients, from the river Iberus. Iberes the people, from the nominative Iber. See Hispania.

Iberia was alfo the name of an inland country of Afia, having Colchis to the weft, with a part of Pontus; to the north Mount Caucafus; on the eaft Albania; and on the fouth Armenia Magna: Now the weftern part of Georgia (See Georgia). Iberia, according to Jofephus, was firf peopled by Tubal, the brother of Gomer and Magog. His opinion is confirmed by the Septuagint ; for Mehech and Tubal are by thefe interpreters rendered Mofchi and Iberians. We know little of the hillory of the country till the reign of Mithridates, when their king, named Airlocis, fiding with that prince againft Lucullus, and afterwards againft Pompey, was defeated by the latter with great đaughter; but afterwards obtained a peace, upon delivering up his fons as hoftages. Little notice is taken of the fucceeding kings by the ancient liftorians. They were probably tributary to the Romans till that empire was overturned, when this, with the other countries in Afia bordering on it, fell fuccelfively under the power of the Saracens and Turks.
ibERIS, scratica cresses, or Candy-tuff, a genus of plants belonsing to the tetradynamia clafs, and in the natural method ranking under the $39^{\text {th }}$ order, Siliquofe. See Botany Intiee.
lBEX, a fpecies of goat. See Capra, Mamalalia Index.
ibis. Sce Tastalus, Ormithology Index.
IBYCUS, a Greek lyric poct, of whofe works there are only a few fragments remaining, flourihed 550 B . C. It is faid, that he was affallinated by robbers; and that, when dying, he called upon fome cranes he faw flying to bear witncfs. Some time atter, one of the nutderers feeing feme cranes, faid to his companions, "There are the wituefies of Ibycus's death ;" which being reported to the magiltates, the affaffins were put to the corture, and having confeifed the fact, were hanged. Thence arole the proverb 1byci Grues.
ICE, in Plyssiology, a folid, tranfparent, and brittle

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 means of cold.The younger Lemery obferves, that ice is only a re-eftablifhment of the parts of water in their natural Date ; that the mere abfence of fire is fufficient to account for this re-eftablithment ; and that the fluidity of water is a real fulion, like that of metals expofed to the fire ; differing only in this, that a greater quantity of fire is neceflary to the one than the other. Gallileo was the firf that obferved ice to be lighter than the water which compofed it : and hence it happens, that ice floats upon water, its fpecific gravity being to that of water as eight to nine. This rarefaction of ice feems to be owing to the air-bubbles produced in water by freezing; and which, being confiderably large in proportion to the water frozen, render the body fo much fpecifically lighter: thefe air-bubbles, during their production, acquire a great expanfive power, fo as to burft the containing veffels, though ever fo flrong.
M. Mairan, in a differtation on ice, attrihutes the increafe of its bulk chietly to a different arrangement of the parts of the water from which it is formed; the icy 太in on the water being compofed of filaments, which, according to him, are found to be constantly and regularly joined at an angle of $60^{\circ}$; and which, by this angular difpofition, occupy a greater volume than if they were parallel. He found the augmentation of the volume of water by freezing, in different trials, a $14^{\text {th }}$, an 18 th, a $19^{\text {th }} ;$ and when the water was previoully purged of air, only a 22 d part: that ice, even after its formation, continues to expand by cold; for, after water had been frozen to fome thicknefs, the Huid part being let out by a hole in the bottom of the veffel, a continuance of the cold made the ice convex; and a piere of ice, which was at frit only a $14^{\text {th }}$ part pecificatly lighter than water, on being expofed fome days to the frof, became a 12 th part lighter. To this caufe he attributes the burlting of ice on ponds.

Wax, refins, and aninal fats, made fluid by fre, instead of expanding like watery liquors, fhrink in their return to folidity: for folid pieces of the fame bodies fink to the bottom of the refpective fluids; a proof that thefe bodies are more denfe in their folid than in their fluid ftate. The oils which congeal by cold, as oil olive, and the effential oil of anifeeds, appear alfo to furink in their congelation. Hence, the different difpolitions of different kinds of trees to be burft by, or to relifl, ftrong frofts, are by fome attributed to the juices with which the tree ioounds; being in the one cafe watery, and in the other refinous or oily.

Though it has been gencrally fuppofed that the natural cryftals of ice are ltars of fix rays, forming angles of $60^{\circ}$ with each other, yet this cryftallization of water, as it may properly be called, feems to be as much affected by circumflances as that of falts. Hence we find a confiderable difference in the accounts of thofe who have undertaken to defcribe thefe cryitals. M. Mairan informs us, that they are ftars with fix radii ; and his opinion is confirmed by obferving the figure of froft on glafs. M. Rome de L'Ine determines the form of the folid cryflal to be an equilateral octaedron. M. Haffenfratz found it to be a prifmatic hexaedron; but M. d'Antic found a method of reconciling thefe
feemingly oppofite opinions. In a violent hail-ftorin, where the hailitones were very large, he found they had ftarp wedge-like angles of more than half an inch; and in thefe he fuppofed it imponible to fee two pyramidal tetraedra joined laterally, and not to conclude that each grain was cemipofed of octaedrons converging to a centre. Some had a cavity in the middle; and he faw the oppofite extremities of two oppofite pyramids, which conttitute the octaedron ; he like. wife faw the octaedron entire united in the middle: all of them were therefore iimilar to the cryftals formed upon a thread immerfed in a faine folution. On thefe principles M. d'Antic conftructed an artificial octaedron refembling one of the largeft hailfones; and found that the angle at the fummit of the pyramid was $45^{\circ}$, but that of the junction of the two pyramids $145^{\circ}$. It is not, however, eafy to procure regular cryftals in hailfones where the operation is conducted with fuch rapidity : in fnow and hoar-froft, where the cryftallization goes on more fowly, our author is of opinion that he fees the rudiments of octaedra.

Ice forms generally on the furface of the water: but this too, like the cryftallization, may be varied by an alteration in the circumftances. In Germany, particularly the northern parts of that country, it has been obferved that there are three kinds of ice. 1. That which forms on the furface. 2. Another kind formed in the middle of the water, refembling nuclei or fmall hail. 3. The ground ice which is produced at the bottom, efpecially where there is any fibrous fubftance to which it may adhere. This is full of cells like a wafp's neft, but lefs regular; and performs many ftrange effects in bringing up very heavy bodies from the bottom, by means of its inferiority in fpecific gravity to the water in which it is formed. The ice which forms in the middle of the water rifes to the top, and there unites into large maffes; but the formation both of this and the ground ice takes place only in violent and fudden colds, where the watcr is flallow, and the furface difturbed in fuch a manner that the congelation tannot take place. The ground ice is very deftructive to dykes and other aquatic works. In the more temperate European climates thefe kinds of ice are not met with.

In many countries the warmth of the climate renders ice not only a defirable, but even a neceflary article; fo that it becomes an object of fome confequence to fall upon a ready and cheap method of procuring it. We thall here take notice of fome attempts made by Mr Cavailo to difcover a method of producing a fufficient degree of cold for this purpofe by the evaporation of volatile liquors. He found, however, in the courfe of thefe experiments, that ether was incomparably fuperior to any other fluid in the degree of cold it produced. The price of the liquor naturally induced him to fall upon a method of ufing it with as little wafte as poifible. The thermometer he made ufe of had the ball quite detached from the ivory piece on which the feale was engraved. The various fluids were then thrownenon the ball through the capillary aperture of a fmall glafs veffel Amaped like a funnel; and care was taken to throw them upon it fo flowly, that a drop might now ard then fall from the under fart, excepting when thofs fluids were ufed,

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Which evaporate rery nowly; in which cafe it was drop falling from it. During the experiment, the thermometer was kept very gently turning round its axis, that the fluid made ute of might fall upon every part of its ball. He found this method preferable to that of dipping the ball of the thermometer into the fluid and taking it out again immediately, or even of anointing it confantly with a feather. The evaporation, and confequently the cold, produced by it, may be increafed by blowing on the thermometer with a pair of bellows; though this was not ufed in the experiments now to be related, on account of the diffi culty of its being performed by one perfon, and likewife becaufe it occalions much uncertainty in the refults.

The room in which the experiments were made was heated to $64^{\circ}$ of Fahrenheit; and with water it was reduced to $56^{\circ}$, viz. $8^{\circ}$ below that of the room or of the water employed. The efect took place in about two minutes; but though the operation was continued for a longer time, it did not fink lower. With fpirit of wine it funk to $48^{\circ}$. The cold was greater with highly rectified fpirit than with the weaker fort ; but the difference is lefs than would, be expected by one who had never feen the experiment made. The pure fpirit produces its effect much more quickly. On wing various other fluids which were either compounded of water and firituous liquor, or pure effences, he found that the cold produced by their evaporation was generally fome intermediate degree between that produced by water and the fpirit of wine. Oil of turpentine funk the mercury three degrees; but olive oil and others, which evaporate very flowly, or not at all, did sot ferfibly affect the thermometer.

To obferve ho: much the evaporation of fpirit of wine, and confequently the cold produced by it, would be incteafed by electricity, he put the tube containing it into an infulating laandle, and conrested it with the conductor of an clećtrical machine, which was kept in action during the time of making the experiment; by which means one degree of cold feemed to be gained, as the mercury now funk to $47^{\circ}$ inftead of $4^{\circ}$, at which it had flood formerly. On trying the three mineral acids, fe found that they heated the thermometer inftead of cooling it; which effect he attributes to the heat they themfelves acquired by uniting with the moilure of the atmolphere. The vitriolic acid, which was very ftrong and tranfparent, raifed the mercury to $102^{\circ}$, the fmoking nitrous acid to $72^{\circ}$, and the marine to $66^{\circ}$.

The apparatus for ufing the leaft poffible quantity of ether for freezing water confifts in a glafs tube (fig. 1.) terminating in a capillary aperture, which is to be fixed upon the bottle containing the ether. Round the lower part of the neck at $A$ fome thread is wound, in order to let it fit the neck of the bottle. When the experiment is to be made, the fopper of the bottle containing the ether is to be removed, and the tube juft mentioned fut in its room. 'The thread round the tube ought alfo to be previounly mointened uith waser or fpittle before it is fut into the seck of the bottle, in order the more effectually to prevent the efcape of the ether betwist the neck oo th.e phial and tube. Fold then the bottle by its tottom FG (fig. 2.)
and keeping it inclined as in the figure, the fnail Itream of cther ilftung out of the aperture $D$ of the tube 1)E, is direcled upon the ball of the thermometer, or upon a tube containing water or other liquor that is required to be congealed. As ether is very volatile, and has the remarkable property of increafing the bulk of air, there is no aperture requitite to allow the air to enter the bottle while the liquid Bows out. The heat of the hand is more than futficient to force out the ether in a continued flream at the aperture D.

In this manner, throwing the Aream of ether upo: the ball of a thermoneter in fuch a rquantity that a drop might now and then, every ten fecorids for inftance, fall from the bulb of the thermometer, $\mathrm{Mr} \mathrm{Ca}-$ vallo brought the mercury down to $3^{\circ}$, or $29^{\circ}$ below the freezing point, when the atmofphere was lomewhat hotter than temperate. When the ether is very good, i. e. capable of diffolving elaftic gum, and has a fmall bulb, not above 20 drops of it are required to produce this effect, and about two minutes of time; but the common fort mult be ufed in greater quantity, and for a longer time; though at laft the thermometer is brought down by this very nearly as low as by the beit fort.

To freeze water by the evaporation of ether, Mr Cavallo takes a thin glafs tube about four inches long, and one-fifth of an inch diameter, hermetically fealed at one end, with a little water in it, fo as to take up about half an inch of the cavity, as is thewn at $C B$ in fig. 3. Into this tube a flender wire $H$ is alfo introduced, the lower extremity of which is twifed into a fpiral, and ferves to draw up the bit of ice when formed. He then holds the glafs tube by its upper part A with the fingers of the left hand, and keeps it contimally and gently turning round its axis, firlt one way and then the other: whilf with the right hand he holds the phial containing the ether in fuch a manner as to direct the ftream on the outfide of the tube, and a little above the furface of the water contained in it. The capillary aperture D fhould be kept almott in contast with the furface of the tube containing the water ; aid by continuing the operation for two or three minutes, the water will be frozen as it were in an inftant; and the opacity will afcend to $C$ in lefs than half a fecond of time, which makes a beautiful appearance. This congelation, however, is only fuperficial : and in order to congeal the whole quantity of water, the operation mult be continued a minute or two longer; after which the wire KI will be found kept very tight by the ice. The hand muft then be applied to the outfide of the tube, in order to fuften the furface of the ice; which would otherwife adhere very firmly to the glafs; but when this is dune, the wire $H$ eafly brings it out.

Sometimes our autbor was accuitomed to put into the tube a fmall thermometer inftead of the wire H ; and thus he had an opportunity of obferving a very curious phenomenon unnoticed by others, viz. that in the winter tipe water requires a fraller degree of cold to congeal it than in the fummer. In the winter, for inflance, the water in the tube $A B$ will freeze when the thermometer flands about $30^{\circ}$; but in the fummer, or even when the thermometer flands at $60^{\circ}$, the quickfilser muft be brought dowi 10,15 , or even more de- grees below the freezing point before any congelation can take place. In the fummer time therefore a greater quancity of ether, and more time, will be required to congeal any given quantity of water than in winter. When the temperature of the atmofphere has been about $40^{\circ}$, our author has been able to congeal a quantity of water with an equal quantity of good ether ; but in fummer, two or three times the quantity are required to perform the effect. "There feems (fays he) to be fomething in the air, which, befides heat, interferes with the freezing of water, and perhaps of all fluids; though I cannot fay from my orrn experience whether the above-mentioned difference between the freezing in winter and fummer takes place with other fluids, as milk, oils, wines," \&c.

The proportion of ether requifite to congeal water feems to vary with the quantity of the latter; that is, a large quantity of water feems to require a proportionably lefs quantity of ether to freeze it than a finaller one. "In the beginning of the fpring (fays Mr Cavallo), I froze a quarter of an ounce of water with about half an ounce of ether : the appatatus being larger, though fimilar to that defcribed above. Now as the price of ether, fufficiently good for the purpofe, is generally about 18 d . or 2 s . per ounce, it is plain, that with an expence under two hhillings, a quarter of an ounce of ice, or ice-cream, may be made in every climate, and at any time, which may aford great fatisfaction to thofe perfons, who, living in thofe places where no natural ice is to be had, never faw or tasted any fuch delicious refrefhment. When a fmall piece of ice, for inflance, of about ten grains weight, is required, the neceflary apparatus is very fmall, and the expence not worth mentioning. I have a fmall box four inchcs and a half long, two inches broad, and one and a half deep, containing all the apparatus neceffary for this purpofe; viz. a bottle capable of containing about one ounce of ether; two pointed tubes, in cafe one flould break; a tube in which the water is to be frozen, and a wire. With the quantity of ether contained in this fmall and very portable apparatus, the experiment may be repeated about ten times. A perfon who wifhes to perform fuch experiments in hot climates, and in places where ice is not eafily procured, requires only a larger bottle of ether befides the whole apparatus defribed above." Electricity increafes the cold produced by mcans of evaporating ether but very little, though the effect is perceptible. Having throwin the electrified and alfo the uneleitriFed ftream of ether upon the bulb of a thermometer, the mercury was brought down two degrees lower in the former than in the latter cafe.

Our author obferves, for the fake of thofe who may be inclined to repeat this experiment, that a cork confined this volatile fluid much better than a glafs ftopple, which it is almoft impofible to grind with fuch exactnefs as to prevent entirely the evaporation of the ether. When a flopple, made very nicely out of an uniform and clofe piece of cork, which goes rather tight, is put upon a bottle of ether, the fmell of that fluid cannot be perceived through it ; but he never faw a glafs ftopple which could produce that effect. In this manner, ether, fpirit of wine, or any other volatile fluid, may be preferved, which does not corrode cork by its fumes. When the ftopple, how ever, is very
of en taken out, it becomes loofe, as it will alfo be by long keeping: in either of which cafes it muft be changed.

Blink of the ICE, is a name given by the pilots to a bright appearance near the horizon, occafioned by the ice, and obferved before the ice itfelf is feen.

Ice-Boats, boats fo conftructed as to fail upo:a ice, and which are very common in Holland, particularly upon the river Maefe and the lake Y. See Plate CCLXXVIII. They go with incredible fwiftnels, fometimes fo quick as to affect the breath, and are found very ufeful in conveying goods and paffengers over lakes and great rivers in that country. Boats of different fizes are placed in a tranfverle form upon a $2 \frac{1}{2}$ or 3 inch deal board; at the extremity of each end are fixed irons, which turn up in the form of flaits; upon this plank the boat refts, and the two ends Cerve as out-riggers to prevent overfetting; whence ropes are faftened that lead to the head of the malt in the nature of fhrouds, and others paffed through a block acrofs the bowfprit: the rudder is made fomewhat like a hatchet with the head placed downward, which being preffed donn, cuts the ice, and ferves all the purpofes of a rudder in the water, by enabling the helmfman to fteer, tack, \&c.

Methcd of making IcE-Crenm. Take a fufficient quantity of cream, and, when it is to be mixed with rafpberry, or currant, or pine, a quarter part as much of the juice or jam, as of the cream : after beating and Atraining the mixture through a cloth, put it with a little juice of lemon into the mould, which is a pewter veffel, and varyirg in fize and thape at pleafure; cover the mould, and place it in a pail about two-thirds full of ice, into which two handfuls of falt have been thrown; turn the mould by the hand-hold with a quick motion to and fro, in the manner ufed for milling chocolate, for eight or ten minutes; then let it relt as long, and turn it again for the fame time; and having left it to fand half an hour, it is fit to be turned out of the mould and to be fent to table. Lemon juice and fugar, and the juices of various kinds of fruits, are frozen without cream; and when cream is ufed, it flould be well mixed.

IcE-TT:/!/s, a fort of Atructure or contrivance common upon the river Neva at Peterßurg, and which afford a perpetual fund of amufement to the populace. They are conftructed in the following manner. A fcaffolding is raifd upon the river about $3 \circ$ feet in height, with a landing place on the top, the afcent to which is by a ladder. From this fummit a fluping plane of boards, about four yards broad and 30 long, defcends to the fuperficies of the river; it is fupported by frong poles gradually decreafing in height, and its fides are defended by a parapet of planks. Upon thefe boards are laid iquare maffes of ice about four inches thick, which being firt froothed with the axe and laid clofe to ench other, are then fprinkled with water: by thefe means they coalefce, and, adhering to the boards, immediately form an inclined plane of pure ice. From the bottom of this plane the fnow is cleared away for the length of 200 yards, and the breadth of four, upon the level bed of the river; and the fides of this courfe, as well as the fides ard top of the fcaffolding, are onnamented with frs and gines. Each gerfon, being provided with

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ice.
a fledge, mounts the ladder; and having attained the fummit, he feats himfelf upon his fledge at the upper extremity of the inclined plane, down which he fuffers it to glide with conliderable rapidity, peiling it as he goes down; when the velocity acquired by the defcent carries it abo:e 100 yards upon the level ice of the river. At the end of this courfe, there is ufually 3 fimilar ice-hill, nearly parallel to the former, which begins where the other ends; fo that the perfon immediately mounts again, and in the fame manner glides down the other inclined plane of ice. This diverfion he repeats as often as he pleafes. The boys alfo are continually employed in \&kaiting down thefe hills: they glide chiefly upon one flait, as they are able to poife themfelves better upon one leg than upon two. Thefe ice-hills exhibit a pleafing appearance upoa the river, as well from the trees with whicb they are ornamented, as from the moving objects which at particular tines of the day are defeending without intermifion.

Ick-Houfe, a repofitory for ice during the fummer months. The afpect of icc-houfes fhould be towards the eaft or fouth-cait, for the advantage of the morning fun to expel the damp air, as that is more permicious than marmth: for which reafon trees in the vicinity of an icehoure tend to its difadvantage.

The beft foil for an ice-houre to be made in is chalk, as it convess away the wafte water without any artificial drain; next to that, loofe fony earth or gravelly foil. Its fituation lhould be on the fide of a hill, for the advantage of entering the cell upon a level, as in the drawing, Pate CCLXXVIII.

To confruct an ice-houfe, firf choofe a proper place at a convenient diftance from the dwelling-houle or houres it is to ferve: dig a carity (if for one family, of the dimenfions fpecified in the defign) of the figure of an inverted cone, finking the bottom concave, to form, a refervoir for the wafte water till it can drain off; if the foil requires it, cut a drain to a confiderable diflance, or fo far as will come out at the fide of the hill, or into a well, to make it communicate with the fprings, and in that drain form a ftink or air-trap, marked $/$, by finking the drain fo much lower in that place as it is high, and bring a partition from the top an inch or more into the water, which will confequently be in the trap; and will keep the well air-tight. Work up a fufficient number of brick piers to receive a cartwheel, to be laid with its convex fide upwards to receive the ice; lay hurdles and fraw upon the wheel, which will let the melted ice drain through, and fease as a fioor. The fides and dome of the cone are to be nine inches thick-the fides to be done in ftecned brick work, i. e. without mortar, and wrought at right angles to the face of the work: the filling in behind floould be with gravel, loofe ftones, or brick-bats, that the water which drains through the fides may the more eafily efcape into the well. The doors of the icehoufe flouid be made as clofe as pofible, and bundles of itraw placed always before the inner door to keep out the air.

Defcription of the prrts referred to by the letters. -- The line firf dug out. $b$ The brick circumference of the cell. $c$ The diminution of the cell downwarts. * The lefer diameter of the cell. e The cart wheel

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or joifts and hurdles. $f$ The piers to rcceive the wheel or floor. $g$ The principal receptacle for ftraw. $h$ 'The inner paffage, $i$ the firt entrance, $k$ the outer door, paffages having a reparate door each. / An air trap. ${ }^{n}$ The well. $n$ The profile of the piers. o The ice filled in. $p$ The height of the cone. $q$ The dome worked in two half brick arches. $r$ The arched paffage. $s$ The door-ways inferted in the walls. $t$ The floor of the paffage. is An aperture through which the ice may be put into the cell; this mult be covered next the crown of the dome, and then filled in with earth. $x$ The floping door, againft which the fraw thould be laid.

The ice when to be put in fhould be collected during the froft, broken into fmall pieces, and rammed down hard in ftrata of not more than a foot, in order to make it one complete body; the care in putting it in, and well ramming it, tends much to its prefervation. In a feafon when ice is not to be had in fufficieat quantities, fnow may be fubflituted.

Ice may be preferved in a dry place under ground, by covering it well with chaff, ftraw, or reeds.

Great ufe is made of chaff in fome places of Italy to preferve ice: the ice-houfe for this purpofe need only be a decp hole dug in the ground on the fide of a hill, from the hottom of which they can eafily carry out a druin, to let out the water which is feparated at any time from the ice, that it may not melt and fpoil the reft. If the ground is tolerably dry, they do not line the fides with any thing, but leave them naked, and only make a covering of thatch over the top of the hole: this pit they fill either with pure fnow, or elfe with ice taken from the pureft and clearef water; becaufe they do not ufe it as we do in England, to fet the bottles in, but really mix it with the wine. They firft cover the bottom of the hole with chaff, and then lay in the ice, not letting it anywhere touch the fides, but ramming in a large bed of chaff all the way between: they thus carry on the filling to the top, and then cover the furface with chaff; and in this manner it will keep as long as they pleafe. When they take any of it out for ufe, they wrap the lump up in chaff, and it may then be carried to any dillant place without wafte or melting.

It appears from the invefligation of Profeffor Beckman, in his Hiftory of Inventions, that the ancients from the earlieft ages were acquainted with the method of preferving fnow for the purpofe of cooling liquors in fummer. "This pratice, (he obferves), is mentioned by Solomon *; and proofs of it are fo numerous in *Prezerbes the works of the Greeks and the Romans, that it is $\times .5 \mathrm{~s} .15$. unneceflary for me to quote them, efpecially as they have been collected by othcrs. How the repofitories for keeping it were conllructed, we are not exprefly told ; but it is probable that the fnow was preferved in pits or trenches.
" When Alcxander the Great befieged the city of Petra, he caufd 30 trenches to be dug, and filled with fnow, which was covered with oak branches; and which kept in that manner for a long time. Plutarch fays, that a covering of chaff and coarfe cloth is fuficient; and at prefent a like method is purfued in Portugal. Where the fnow has been collected in a deep gulf, fome grafs or green fords, covered with dung from the

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fheep pens, is thrown over it; and under thefe it is fo well preferved, that the whole fummer through it is fent the diftance of 60 Spanifh (nearly 180 Englihh). miles to Lirbon.
" When the ancients, therefore, wifhed to have cooling liquors, they either drank the melted fnow, or put fome of it in their wine; or they placed jars filled with wine in the fiow, and fuffered it to cool there as long as they thought proper. That ice was allo preferved for the like purpofe, is probable from the teftimony of various authous; but it appears not to lave been ufed fo much in warm countries as in the northern. Even at prefent frow is employed in Itals, Spain, and Portugal; but in Perfia ice. I have never any where found an account of Grecian or Roman ice-houfes. By the writers on agriculture they are not mentioned."

ICk-I/fand, a name given by failors to a great quantity of ice collected into one huge folid mafs, and floating about upon the feas near or within the Polar circles. -Many of thefe fluctuating illands are met with on the coafts of Spitzbergen, to the great danger of the thipping employed in the Greenland fihery. In the midat of thofe tremendous maffes navigators have been arrefteft and frozen to death. In this manner the brave Sir Hugh Willoughby perifhed with all his crew in 1553 ; and in the year $\mathrm{I}_{773}$, Lord Mulgrave, after every effort which the molt finifhed feaman could make to accomplifh the end of his royage, was caught in the ice, and was near experiencing the fame unliappy fate. See the account at large in Phipps's Voyage to the North Pole. As there defcribed, the fcene, divelted of the horror from the eventful expectation of change, was the mof beautiful and picturefque:-Two large hips becalmed in a valt bafon, furrounded on all fides by iflands of various furms: the weather clear: the fun gilding the circumambient ice, which was low, fmooth, and even; covered with fnow, excepting where the pools of water on part of the furface appeared cryftalline with the young ice: the fmadl fpace of fea they ware confined in perfectly fmooth. After fruitlefs attempts to force a way through the fields of ice, their limits were perpetually contracted by its clofing; till at length it befet each veffel till they became immoveably fised. The fmooth extent of furface was foon lof : the proflure of the pieces of ice, by the violence of the fwell, caufed them to pack: fragment rofe upon fragment, till they were in many places higher than the main-yard. The movements of the fhips were tremendris and involuntary, in conjunction with the furrounding ice, actuated by the currents. The water thoaled to 14 fathoras. The grounding of the ice or of the thips would have been equally fatal: The force of the ice might have crufhed them to atoms, or have lifted them out of the water and overlet them, or have left them fufpended on the fummits of the pieces of ice at a tremendous height, expofed to the fury of the winds, or to the rift of being dathed to pieces by the failure of their frozen dock. An attempt was made to cut a paffage through the ice; after a perfeverance worthy of Britons, it proved fruitlefs. The commander, at all times mafter of himfelf, directed the boats to be made ready to be hauled over the ice, till they arrived at navigable water (a talk alone of feven days), and in them to make their voyage to England. The boats were drawn progrefively three whole days. At
length a wind fpring up, the ice feparated fufficiently to yield to the preflure of the full-failed thips, which, after labouring againt the refilting fields of ice, arrived on the 10th of Augult in the harbour of Smeeringberg, at the weft ead of Spitzbergen, between it and Hack. luyt's Headland.

The forms aflumed by the ice in this chilling climate are extremely pleafing to even the molt incurious eye. The furface of that which is congealed from the fea water (for we muft allow it two origins) is flat and even, hard, opake, refembling white fugar, and incapable of being fid on, like the Britilh ice. The greater pieces, or fields, are many leagues in length : the leffer are the meadows of the feals, on which thefe animals at times frolic by hundreds. The motion of the leffer pieces is as rapid as the currents: the greater, which are fometimes 200 leagues long, and 60 or 80 broad, move flow and majeltically; often fix for a time, immoveable by the power of the ocean, and then produce near the horizon that bright white appearance called the blink. The approximation of two great fields produces a molt fingular phenomenon: it forces the leffer (if the term can be applied to pieces of leveral acres (quare) out of the water, and adds them to their furface; a fecond and often a third fucceeds; fo that the whole forms an aggregate of a tremendous height. Thefe float in the fea like fo many rugged mountains, and are fometimes 500 or 600 yards thick; but the far greater part is concealed beneath the water. Thefe are continually increafed in height by the freezing of the fpray of the fea, or of the melting of the fnow, which falls on them. 'Thofe which remain in this frozen climate receive continual growth; others are gradually wafted by the northern winds into fouthern latitudes, and melt by degrees, by the heat of the fun, till they wafte away, or difappear in the boundlefs element.

The collifion of the great fields of ice, in high latitudes, is often attended with a noife that for a time takes away the fenfe of hearing any thing elfe; and the leffer with a grinding of unfpeakable horror. The water which dathes againf the mountainous ice freezes into an infinite variety of forms; and gives the voyager ideal towns, ftreets, churches, fleeples, and every fhape which imagination can frame.

Ice-Plant. See Mesembryanthemum, Botany Index.

ICEBERGS, are large bodies of ice filling the valleys between the high mountains in northern latitudes. Among the moft remarkable are thofe of the ealt coalt of Spitzbergen (fee Greenland, $n^{\circ} 10$.) They are feven in number, but at confiderable diftances from each other; each fills the valleys for trads unknown in a region totally inacceffible in the internal parts. The glaciers * of Switzerland feem contemptible to* See Glso thefe; but prefent often a fimilar front into fome lower ciers. valley. The lat exhibits over the fea a front 300 feet high, emulating the emerald in colour; cataracts of melted fnow .precipitate down various parts, and black fpiring mountains, ftreaked with white, bound tlie fides, and rife crag above crag, as far as eye can reach in the back giound. See Plate CCLXXVIII. At imes immenfe fragments break off, and tumble into the water, with a moft alarming dafhing. A piece of this virid green fubftance has fallen, and grounded in 24 fathoms + Pbippsis. water, and fired above the furface 50 feet $\ddagger$. Simi- $F_{\text {oyage }}$



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Ieeland. lar icebergs are frequent in all the Aratic regions; and to their lapfes is owing the folid mountainous ice which infefts thofe feas.-Frof fports wonderfully with thefe icebergs, and gives them majeftic as well as other moit fingular forms. Maffes have been feen affuming the thape of a Gothic church, with arched windows and doors, and all the rich drapery of that ftyle, compofed of what an Arabian tale would fcarcely dare to relate, of cryital of the richef fapphirine blue; tables with one or more feet; and often immenfe 月at-roofed temples, like thofe of Luvor on the Nile, fupported by round tranfparent columns of cerilean hue, float by the aftonifhed fpectator. Thefe icebergs are the creation of ages, and receive annually additional height by the falling of foows and of rain, which often infantly freezes, and more than repairs the lofs occafioned by the influence of the meling fon.

ICELAND, a large ifland lying in the northern part of the Atlantic ocean, between 63 and 68 degrees of north latitude, and between 10 and 26 degrees of wefl longitude ; its greateft length being about 700 miles, and its breadth 300 .

This country lying partly within the frigid zone, and being liable to be furrounded with vaft quantities of ice which come from the polar feas, is, on account of the coldnefs of its climate, very inhofpitable; but much more fo for other reafons. It is exceedingly fubject to earthquakes; and fo full of volcanoes, that the little part of it which appears fit for the habitation of man feems almoft totally laid wafte by them. The beft account that hath yet appeared of the illand of Iceland is in a late publication, intitled "Letters on Iceland, \&c. written by Uno Von Troil, D. D. firft chaplain to his Swedih majelly." This gentleman failed from London on the 12 th of July 1772 , in company with Mr Banks, Dr Solander, and Dr James Lind of Edinburgh, in a thip for which 103l. Sterling was paid every month. After vifiting the Weftern illes of Scotland, they arrived on the 28th of Augult at Iceland, where they caft anchor at Beffeftedr or Befififtadr, lying in about $64^{\circ} 6^{\prime} \mathrm{N}$. Lat. in the weftern part of the inland. The country had to them the moft difmal appearance that can be conceived. "Imagine to yourfelf (fays Dr Troil) a country, which from one end to the other prefents to your view only barren mountains, whofe fummits are covered with eternal fnow, and between them fields divided by vitrified cliffs, whofe high and fharp points feem to vie with each other to deprive you of the fight of a little grafs which fcantily fprings up among them. Thefe fame dreary rocks likewife conceal the few fcatered habitations of the natives, and no where a fingle tree appears which night afford thelter to frendhip and innocence. The profpect before us, though not pleafing, was uncommon and furprinag. Whatever prefented itfelf to our view bore the marks of devaftation; and our eyes, accuftomed to behold the pleafing coalts of England, now law nothing but the veftiges of the operation of a fire, Heaven knows how ancient!"

The climate of Iceland, however, is not unvholefume, or naturally fubject to exceffive colds, notwithflanding its northerly fituation. There have been inflances indeed of Fahrenheit's thermometer finking to $24^{\circ}$ below the freezing point in winter, and rifing to
$104^{\circ}$ in fummer. Since the year 1749, obfervations Ice'and. have been made on the weather; and the refult of thefe obfcrvations hath been infavourable, as the coldnefs of the climate is thought to be on the increafe, and of confequence the country is in danger of becoming unfit for the habitation of the human race. Wood, which formerly grew in great quantities all over the illand, cannot now be raifed. Even the hardy firs of Norway cannot be seared in this ifland. They feemed indeed to thrive till they were about two feet high; but then their tops withered, and they ceafed to grow. This is owing chietly to the ftorms and hurricanes which frequently happen in the months of May and June, and which are very unfavourable to vegetation of every kind. In $\mathbf{1} 77^{2}$, Governor Thodal fowed a little barley, which grew very brifkly; but a fhort time before it was to be reaped, a violent florm fo effectually deftroyed it, that only a ferr grains were found fcattered about. Befides thefe violent winds, this ifland lies under another difadvantage, owing to the floating ice already mentioned, with which the coafts are often befet. This ice comes on by degrees, always with an eafterly wind, and frequently in fuch quantities as to fill up all the gulfs on the north-welt fide of the ifland, and even covers the fea as far as the eye can reach; it alfo fometimes drives to other fhores. It generally comes in January, and goes away in March. Sometimes it only reaches the land in April; and, remaining there for a long time, does an incredible dcal of mifchief. It confilts party of mountains of ice, faid to be fometimes 60 fathoms in height; and partly of field ice, which is neither fo thick nor fo much dreaded. Sometimes thefe enormous maffes are grounded in thoal-water; and in thefe cafes they remain for many montlhs, nay years, undiflolved, chilling the atmofphere for a great way round. When many fuch bulky and lofty ice-maffes are floating together, the wood which is often found drifting between them, is fo much chafed, and prefled with fuch violence together, that it fometimes takes fire : which circumftance has occafioned fabulous accounts of the ice being in flames.

In 1753 and 1754 , this ice occafioned fuck: a violent cold, that horles and fheep dropped down dead by reafon of it, as well as for want of food; horfes were obferved to feed upon dead cattle, and the hheep ate off each other's wool. In 1755, towards the end of the month of May, the waters were frozen over in one night to the thicknefs of an inch and five lines. In 1756, on the 26 th of June, fnow fell to the depth of a yard, and continued falling through the months of July and Augult. In the year following it froze very hard towards the end of May and beginring of June, in the fouth part of the ifland, which occafioned a great fcarcity of grafs. Thefe frolts are generally followed by a famine, many examples of which are to be found in the Icelandic chronicles. Befides thele calamities, a number of bears annually arrive with the ice, which commit great ravages among the fleep. The Icelanders attempt to deflroy thefe intrude:s as foon as they get fight of them. Sometimes they affemble together, and drive them back to the ice, wit'? which they often float off again. For want of fire-ar ns, they are obliged to ufe fears on thefe occafions. The government alfo encourages the deftruation of thefe animale,

Ie eland. by paying a premium of 10 dollars for every bear that is killed, and purchafing the ltin of him who killed it.

Notwithfanding this difmal picture, however, taken from Von Troil's letters, fome tracts of ground, in high cultivation, are mentioned as being covered by the great eruption of lava in 1783 . It is poffible, therefore, that the above may have been fomerrhat exaggerated.

Thunder and lightning are feldom heard in Iceland, except in the neighbourhood of volcanoes. Aurora Borealis is very frequent and ftrong. It moft commonly appears in dry weather; though there are not wanting inftances of its being feen before or after rain, or even during the time of it. The lunar halo, which prognoflicates bad weather, is likewife very frequent here; as are alfo parhelions, which appear from one to nine in number at a time. Thefe parhelions are obferved chiefly at the approach of the Greenland ice, which an intenfe degree of froft has prodaced, and the frozen rapours fill the air. Fire-balls, fomeiimes round and fonetimes oval, are obferved, and a kind of ignis fatuus which attaches itfelf to men and beafts; and comets are alfo frequently mentioned in their chronicles. This laft circumfance deferves the attention of aftronomers.

Iceland, befides all the inconveniences already mentioned, has two very terrible ones, called by the natives ferida and fniofodi: the name of the firlt imports large pieces of a mountain tumbling down and deftroving the lands and houfes which lie at the foot of it : this hap. pened in 1554 , when a whole farm was ruined, and thirteen people buried alive. The other word fignifies the effects of a prodigious quantity of fnow, which corers the top of the mountains, rolling down in immenfe maffes, and doing a great deal of damage: of this there was an inflance in 1699 , during the night, when two farms were buried, with all their inhabitants and cattle. This laft accident Iceland has in common with all very mountainous countries, particularly Switzerland.
Accourt of " Iceland abounds with hot and boiling frrings, the hot forings of of which foout up into the air to a furprifing Ice'and from $V$ in Troil's Letters.
height. All the jets d'eau which have been contrived with fo much art, and at fuch an enormous expence, cannot by any means be compared with thefe wonders of nature in Iceland. The water-works at Herenhaufen throw up a fingle column of water of half a quarter of a yard in circumference to a height of aboit $9 \circ$ feet ; thofe at the Winterkeften at Caffel throw it up, but in a much thinner column, $130^{\circ}$ feet; and the jet d'eau at St Cloud, which is thought the greateft of all the French water-works, cafts up a thin column 80 feet into the air; but fome fprings in Iceland pour forth columns of water feveral feet in thicknefs to the height of many fathoms; and many affirm of feveral hundred feet.
"Thefe fprings are unequal in their degrees of heat; but we liave obferved none under 188 degrees of Fahrenheit's thermometer; in fome it is 192, 193, 212 , and in one finall vein of water 213 degrees. From Jome the water fows gently, and the fpring is then called laug, " a bath;" from others it fpouts with a grest moife, and is then called Hurr, or kittel. It is yezy common for fome of thefe foonting forings to
clofe up, and others to appear in their ftead. All Iceland. thefe hot waters have an incrufting quality, fo that we very commonly find the exterior furface from whence it burfts forth covered with a kind of rind, which almoft refembles chafed work, and which we at firft took for lime, but which was afterwards found by Mr Bergman to be of a filiceous or flinty nature. In fome places the water taftes of fulphur, in others not; but when drank as foon as it is cold, taftes like common boiled water. The inhabitants ufe it at particular times for dyeing; and were they to adopt proper regulations, it might be of till greater ufe. Victuals. may alfo be boiled in it, and milk held over its fteanbecomes fweet ; owing, mof probably, to the exceffive heat of the water, as the fame effect is produced by boiling it a long tinse over the fire. They have begun to make falt by boiling fea water over it, which when it is refined, is very pure and good. The cows which drink this hot water yield a great deal of milk. Egbert Olafsen relates, that the water does not become turbid when alkali is thrown into it, nor does it change the colour of fyrup of violets. Horrebow afferts, that if you fill a bottle at one of the fpouting fprings, the water will boil over two or three times while the fpring throws. forth its water; and if corked too foon, the bottle will burf.
"Among the many hot fprings to be met with in A particuIceland, feveral bear the name of geyfer : the following iar defripis a defeription of the moft remarkable of that name, tion ot one and in the whole inland. It is about two days journey named from Hecla, near a farm called Haukadul. Here a poet would have an opportunity of painting whatever nature has of beautiful and terrible, united in one picture, by delineating this furprifing phenomenon. Reprefent to yourfelf a large field, where you fee on one fide, at a great dilance, high mountains covered with. ice, whofe fummits are generally wrapped in clouds, fo that their fharp and unequal points become invifible. This lofs, however, is compenfated by a certain wind, which caufes the clouds to fink, and cover the mountain itfelf, when its fummit appears as it were to reft on the clouds. On the other fide Hecla is feen, with its three points covered with ice, rifing above the clouds, and, with the fmoke which afcends from it, forming other clouds at fome diftance from the real ones : and on another fide is a ridge of high rocks, at the foot of which boiling water from time to time iffues forth; and further on extends a marh of about three Engliih miles in circumference, where are 40 or 50 boiling fprings, from which a vapour afeends to a prodigious height.In the midit of thefe is the greateft fpring seyfer, which deferves a more exact and particular account. In travelling to the place, about an Englif! mile and a haif from the lever, from which the ridge of rocks fill divided us, we hear a loud roaring noife, like the rulhing of a torrent precipitating itfelf from ftupendous rocks. W'e afked our guide what it meant; he anfwered, it was geyfer roaring; and we foon faw with our naked eyes what before feemed almoft incredible.
" The depth of the opening or pipe from which the water gufhes cannot well be determined; for formetimes the water funk down feveral fathoms, and fome feconds paffed before a fone which was thrown into the aperture reached the furface of the mater. The ogening itfelf was perfectly round, and 19 feet in dia-

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iceland. meter, and terminated in a bafon 59 feet in diameter. Both the pipe and the bafon were covered with a rough Ralactitic rind, which had been formed by the force of the water: the outermof border of the bafon is nine feet and an inch higher than the pipe itfelf. The water here fpouted feveral times a-day, but always by flarts, and after certain intervals. The people who lived in the neighbourhoud told us, that they rofe higher in cold and bad weather than at other times; and Egbert Olafsen and feveral others affirm, that it has fpouted to the height of 60 fathoms. Moft probably they guefied only by the eye, and on that account their calculation may be a little extravagant; and indeed it is to be doubted whether the water was ever thrown up fo high, though probably it fometimes mounts higher than when we obferved it. The method we took to obferve the height was as follows. Every one in corapany wrote down, at each time that the water fpouted, how high it appeared to him to be thrown, and we afterwards chofe the medium. The firt column marks the foutings of the water, in the order in which they followed one another; the fecond, the time when thefe effufions happened; the third, the height to which the sater rofe; and the laft, how long each fpouting of water contained.

| No Time. | Height. | Duration. |
| :---: | :---: | :---: |
| $\begin{aligned} & 1 \text { At VI } 4_{2} \mathrm{~m} . \\ & 2=51 \end{aligned}$ | $\begin{aligned} & 3 \supset \text { feet. } \\ & 6 \end{aligned}$ | $\begin{aligned} & \text { - } 20 \text { feconds. } \\ & 020 \end{aligned}$ |
| 3--VII 16 | 6 | 010 |
| 4 - $3^{1}$ | 12 | - 15 |
| $5-31$ | 60 | - 6 |
| 6-V11117 | 24 | - 30 |
| 7 - 29 | 18 | - 40 |
| $8-36$ | 12 | - $4^{\circ}$ |

The pipe was now for the firl time full of water, which ran fluwly into the bafon.

| $9-$ IX 25 | 48 | 110 |
| :--- | :--- | :--- |
| $10-X ~$ | 16 | 24 |

"At 35 minutes after twelve we heard, as it were, three difcharges of a gun under ground, which made it Thake : the water flowed over immediately, but inftantly funk again. At eight minutes after tiro, the water flowed over the border of the bafon. At 15 mi nutes after three, we again heard feveral fubterranean noifes, though not fo frong as before. At 43 mi nutes after four, the water flowed over very ftrongly during the face of a minute. In fix minutes after, we heard many loud fubterraneous difcharges, not only near the fpring, but alfo from the neighbouring ridge of rocks, where the water fpouted. At 51 mi nutes after fix, the fountain fpouted up to the height of 92 feet, and continued to do fo for four minutes. After this great effort, it funk down very low into the pipe, and was entirely quiet during feveral minutes; but foon began to bubble again: it was not, hos:ever, thrown up into the air, but only to the top of the pipe.
"The force of the vapours which throw up thefe waters is exceffive : it not only prevents the ftones which are thrown into the opening from finking, but even throws them up to a very great height, together with the water. When the bafon was full, we placed
ourfelves before the fun in fuch a manner that we Icelad. could fee our fhadows in the water ; when every one obfersed round the lhadow of his own head (though not round that of the heads of others), a circle of almoft the fame colours which compofe the rainbow, and round this another bright circle. 'This moft probably proceeded from the vapours exhaling from the water.
"Not far from this place, another fpring at the foot of the neighbouring ridge of rocks fpouted water to the lieight of one or two yards each time. The opening through which this water iffued was not fo wide as the other: we imagined it polfible to fop up the hole eutirely by throwing large fones into it, and even flatered ourfelves that our attempts had fucceeded. : but, to our attonilhment, the water guthed forth in a very violent manner. We haftened to the pipe, and found all the fones thrown afide, and the water playing freely through its former channel. In thefe large fprings the waters were hot in the higheft degree, and tafted a little of fulphur ; but in other refoects it was pure and clear. In the fmaller fprings of the neighbourhood the water was tainted: in fome, it was as muddy as that of a clay-pit: in others, as white as milk; and in tome few, as red as blood.
" Iceland abounds with pillars of balaltes, which Account of the lower fort of people imagine have been piled upon the bafaltic each other by the giants, who made ufe of fuperna-pillars, $8<c_{\text {a }}$ tural force to effect it. They have generally from three to feven fides; and are from four to fix feet in thicknefs, and from 12 to 16 yards in length, without any horizontal divifions. But fometimes they are only from fix inches to one foot in height, and they are then very regular, infomuch that they are fometimes made ufe of for windows and door-polts. In fome places they only peep out here and there among the lava, or more frequently among the tufa; in other places they are quite overthrown, and pieces of broken pillars oniy make their appearance. Sometimes they extend without interruption for two or three miles in length. In one mountain they have a fingular appearance: on the top the pillars lie horizontally, in the middle they are floping; the lowelt are perfectly perpendicular; and in fome parts they are bent into a femicircular figure. The matter of the Iceland bafalies feems to be the fame with that of Stafra; though in fome it is more porous, and inclines to a gray. Some we obferved which were of a blackih gray, and compofed of feveral joints. Another time we oblerved a kind of porous glaty fone, confequently a lava, which was fo indiftinctly divided, that we were for fome time at a lofs to determine whether it was bafaltes or not, thounh at laft we all agreed that it was.

Iron ore is found in fome parts of the ifland, and that beautiful copper ore called malachites. Horrebow fpeaks of native filver. A firatum of fulphur is found near Myvatu from nine inches to two feet in thicknefs; partly of a brown colour, and partly of a dcep orange. Immediately over the fulphur is a blue earth; above that a vitriolic and aluminous onc ; and beneath the fulphur a reddifh bole.

At what time the ifland of Iceland was firft peopled Hiftory of is uncertain. An Englith colony. indeed is faid to the inand have been fettled there in the beginning of the fifth

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Icelend. century; but of this there are not fuficient proofs. There is, however, reafon to fuppofe that the Englifls and lrilh were acquainted with this country under another name, long before the arrival of the Norwcsians ; for the celebrated Bede gives a pretty accurate defcription of the illand. But of the original inhabitants we cannot pretend to fay any thing, as the Iceland chronicles go no farther back that the arrival of the Norwegians. What they relate is to the following purpofe.

Naddoir, a famous pirate, was driven on the coaft of Iceland in 86 I , and named the country Snio-land, "Snow land," on account of the great quantities of fnow with which he perceived the mountains covered. He did not remain there long: but on his return extolled the country to fuch a degree, that one Garder Suafarfon, an enterpriing Swede, was eneouraged by his account to go in fearch of it in $86_{+}$. He failed quite round the illand, and gave it the name of Gardal/bolnuar, or Garder's ifland. Having remained in Iceland during the winter, he returned in the fpring to Norway, where he defcribed the new-difoovered illand as a pleafant well-wooded country. This excited a deitire in Floke, another Swede, reputed the greatelt ravigator of his time, to undertake a voyage thither. As the compafs was then unknown, he took three ravens on board to employ them on the difcovery. By the way he vifited his friends at Ferro; and having failed farther to the northward, he let lly one of his ravens, which returned to Ferro. Some time after, he difmifed the fecond, which returned to the fhip again, as he could find no land. The laft trial proved more fuccelsful; the third raven took his 月ight to Iceland, where the fhip arrived a few days after. Floke ftaid here the whole winter with his company; and, becaufe he found a great deal of floating ice on the north fide, he gave the country the name of Iceland, whieh it has ever fince retained.

When they returned to Norway in the following fpring, Floke, and thofe that had heen with him, made a very different defcription of the country. Floke defcribed it as a wretched place; while one of his companions, named Thorulfr, praifed it fo highly, that he affirmed butter dropped from every plant ; which extravagant commendation procured him the name of Thorulfr-fmior, or Butter-Thorulfr.

Fom this time there are no accounts of any voyages to Iceland, till Ingolfr and his friend Leifr undertook one in 874. They fpent the winter on the illand, and determined to fettle there for the future. Ingolfr returned to Norway, to provide whatever might be necefiary for the comfortable eftablifhment of a colony, and Leifr in the mean time went to affift in the war in England. After an interval of four years, they again met in Iceland, the one bringing with him a confiderable number of people, with the neceliary tools and inftruments for making the country habitable; and the other inported his acquired treafures. After this perind many people went there to fettle; and, in the fpace of 60 years, the whole illand was inhabited. The tyranny of Harold king of Norway contributed not a little to the population of Iceland ; and fo great was the emigration of his fubjects, that he was at laft abliged to ifue an order, that no one f:ould fail frons

Norway to Iceland without paying four ounces of Icelan? fine filver to the king.

Befides the Nortegians, new colonies arrived from different nations, between whom wars foon commenced; and the Icelandic hiftonies are full of the accounts of their battles, 'Yo prevent theic conflicts for the future, a kind of chief was chofen in 928 , upon whom great powers were conferred. This man was the fpeaker in all their public deliberations; pronounced fentence is dificult and intricate cafes ; decided all difputes; and publiihed new laws, after they had been received and approved of by the people at large: but he had no power to make laws without the approbation and confent of the refl. He therefore affembled the chiefs whenever the circumftances feemed to require it ; and after they had deliberated among themfelves, he reprefented the opinion of the majority to the people, whofe afient was neceflary before it could be confidered as a law. His authority among the chiefs and leaders, however, was inconfiderable, as he was cholen by them and retained his place no longer than while he preferved their confidence.

This inflitution did not prove fufficient to reftrain the turbulent fpirit of the Icelanders. They openly waged war with each other; and, by their inteftine conflic:s, fo weakened all parties, that the whole became at laft a prey to a few arbitrary and enterprifing men; who, as is too generally the cafe, wantonly abufed their power to the oppreflion of their countrymen, and the difgrace of humanity. Notwithftanding thefe troubles, however, the Icelanders remained free from a foreign yoke till 1261 ; when the greateft part of them put themfelves under the protection of Hakans king of Norway, promifing to pay him tribute upon certain conditions agreed on between them; and the reft followed their example in 1264. Afterwards, Iceland, together with Norway, beeame fubject to Denmark. For a long time the care of the illand was committed to a governor, who commonly went there once a-year; though, according to his inftructions, he ought to have refided in Iceland. As the country fuffered incredibly through the abfence of its governors, it was refolved a few years ago that they hould refide there, and have their feat at Beflefftedr, one of the old royal domains. He has under him a bailiff, two laymen, a fheriff, and 21 fyffeinen, or magiftrates who fuperintend fmall diffriets; and almoft every thing is decided according to the laws of Denmark.

At the firft fettlement of the Norwegians in Iceland, Mannes they lived in the fame manner as they had done in their sxc. of the own country, namely, by war and piracy. Their fi-Icelander: tuation with regard to the kings of Norway, however, foon obliged them to apply to other ftates, in order to learn as much of the knowledge of government and politics as was neceflary to preferve their colony from fubjugation to a foreign yoke. For this purpofe they often failed to Norway, Denmark, Sweden, England, and Scotland. The travellers, at their return, were obliged to give an account to their chiefs of the flate of thofe kingdoms through which they paffed. For this reafon, hiftory, and what related to feience, was held in high repute as long as the republican form of government lafted; and the great number of hittories

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Iceland. to be met with in the country, fhow at leaft the defire of the Icelanders to be inftructed. 'Jo fecure themfelves, therefore, againt their powerful neighbours, they were obliged to enlarge their hitlorical knowledge. They likewife took great pains in fludying perfectly their own lasss, for the maintenance and protection of their internal fecurity. Thus Iceland, at a time When ignorance and obfcurity overwhelmed the reft of Europe, was enabled to produce a confiderable number of poets and hiftorians. When the Chriftian religion was introduced, about the end of the 10 th century, more were found converfant in the law than could have been expected, confidering the extent of the country, and the number of its inhabitants. Fithing was followed among them; but they devoted their attention confiderably more to agriculture, which has fince entirely ceafed.

Two things have principally contributed towards producing a great change both in their character and way of life, viz. the progrefs of the Chriftian religion, and their fubjection firlt to Norway, and afterwards to Denmark. For if religion, on one fide, commanded them to defif from their ravages and warlike expeditions; the fecular power, on the other, deprived them of the neceffary forces for the execution of them: and, fince this time, we find no farther traces of their heroic deeds, except thofe which are preferved in their hiftories.

The modern Icelanders apply themfelves to fifhing and breeding of cattle. They are middle-fized and well made, though not very ftrong; and the women are in general ill-featured. Vices are much lefs common among them, than in other parts where luxury and riches have corrupted the morals of the people. Though their poverty difables them from imitating the hofpitality of their anceftors in all refpects, yet they continue to fhow their inclination to it: they cheerfully give away the little they have to fare, and exprefs the utmof joy and fatisfaction if you are pleafed with their gift. They are uncommonly obliging and fairhful, and extremely attached to government. They are very zealous in their religion. An Icelander never paffes a river or any other dangerous place, without previoufly taking off his hat, and imploring the divine protection; and he is always thankful for the protection of the Deity when he has paffed the danger in fafety. They have an inexpreffible attachment to their native country, and are nowhere fo happy. An Icelander therefore rarely fettles in Copenhagen, though ever fuch advantageous terms fhould be offered him. On the other hand, we cannot afcribe any great induftry or ingenuity to thefe people. They work on in the way to which they have all along been accuftomed, without thinking of improvements. They are not cheerful in converfation, but fimple and credulous, and have no averfion againft a bottle, if, they can find an opportunity. When they meet together, their chief paftime confifts in reading their hiftory. The mafter of the houfe makes the beginning, and the reft continue in their turns when he is tired. Some of them know thefe ftories by heart; others have them in print, and others in writing. Befides this, they are great players at chefs and cards, but only for their amufement, fince they never play for money; which, however, feems to have been formerly in ufe among Vol. XI. Part I.
them; fince by one of their old laws, a fine is impofed upon thofe who play for money.

The modern Icelanders have made very little alte. ration in their drefs from what was formerly in ufe. The men all wear a linen thirt next to the 0kin, with a fhort jacket, and a pair of wide breeches over it. When they travel, another fhort coat is put over all. The whole is made of coarfe black cloth, called wadmal; but fome wear clothes of a white colour. On their head they wear large three-cornered hats, and on the feet Iceland fhoes and wortted ftockings. Some of them indeed have fhoes from Copenhagen; but, as they are rather too dear for them, they generally make their own fhoes, fometimes of the hide of oxen, but more frequently of fheeps leather. They make them by cutting a \{quare piece of leather, rather wider than the length of the foot; this they few up at the toes and behind at the heel, and tie it on with leather thongs. Thefe fhoes are convenient enough where the country is level; but it would be very difficult for us who are not accuftomed to walk with them amongf the rocks and flones, though the Icelanders do it with great eafe.

The women are likewife dreffed in black wadmal. They wear a bodice over their Thifts, which are fewed up at the bofom; and above this a jacket laced before with long narrow fleeves reaching down to the wrifts. In the opening on the fide of the fleeve, they have buttons of chafed filver, with a plate fixed to cach button; on which the lover, when he buys them in order to prefent them to his miftrels, takes care to have his name engraved along with hers. At the top of the jacket a little black collar is fixed, of about three inches broad, of velvet or filk, and frequently trimmed with gold cord. The petticoat is likewife of wadmal, and reaches down to the ankles. Round the top of it is a girdle of filver or fome other metal, to which they faften the apron, which is aifo of wadmal, and ornamented at top with buttons of chafed filver. Over all this they wear an upper drefs nearly refernbling that of the Swediih peafants; with this difference, that it is wider at bottom: this is clofe at the neck and wrifts, and a hand's-breadth fhorter than the petticoat. It is adorned with a facing down to the bottom, which looks like cut velvet, and is generally wove by the Icelandic women. On their fingers they wear gold, filver, or brafs rings. Their head-drefs confits of feveral cloths wrapped round the head almolt as high again as the face. It is tied faft with a handkerchief, and ferves more for warmth than ornament. Girls are not allowed to wear this head-drefs till they are marriageable. At their weddings they are adorned in a very particular manner; the bride wears, clofe to the face, round her head-drefs, a crown of filver gilt. She has two chains round her neck, one of which hangs down very low before, and the other refts on her houlders. Befides thefe, the wears a leffer chain, from whence generally hangs a little heart, which may be opened to put fome kind of perfume in it. This drefs is wom by all the Icelandic women without exception: only with this difference, that the poorer fort have it of coarfe wadmal, with ornaments of brafs; and thofe that are in eafier circumftances have it of broad cloth, with filver ornaments gilt.

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The houfes of the Icelanders are very indifferent, but the worll are faid to be on the fruth fide of the illand. In fome parts they are built of drift-wood, in others of lava, almoft in the fame manner as the fonewalls we make for inclofures, with mofs faffed between the pieces of lava. In fome houfes the walls are wainfcotted on the infidc. The roof is covered with lods, laid over rafting, or fometimes orer the ribs of whales; the walls are about three yards high, and the fintrance fomenhat lower. Inftead of glafs, the windows are made of the chorion and amnios of fheep, or the membranes which furround the womb of the ewe. Thefe are ftretched on a hoop, and laid over a hole in the roof. In the poorer fort of houfes they employ for the windows the inner membrane of the ftomach of animals, which is lefs tranfparent than the others.
Diet.
As the ifland of Iceland protuces no kind of grain, the inhabitants of coniequence have no bread but what is- imported; and which being too dear for common are, is referved for weddings and other entertainments. The following lift of their viands is taken from 'Troil's Eetters.
"1. Flour of figlgras, (lichen iflandicus), or rockgrafs. The plant is firf wathed, and then cut into Imail fieces by fome; though the greater number dry it by fire or in the fun, then pur it into a bag in which it is well teaten, and laftly work it into a four by framping.
" 2. Flour of korfygr, (polysomum biforta), is prepared in the fame manner, as well as the two other forts of wild corn metur (arundo arenaria, and arundo foliorum lateribus convolutis), by feparating it from the chaf, pounding, and laftly grinding it.
" 3. Surt fimoer, (four butter). The Icelanders feldom make ufe of freth or falt butter, but let it grow four before they eat it. In this manner it may be kept for 20 years, or even longer; and the Icelanders look upon it as more wholefome and palatable than the butter ufel among other nations. It is reckoned better the older it grows; and one pound of it then is valued as much as two of frefl butter.
"3. Striug, or whey boiled to the confiftence of four milk, and preferved for the winter.
" 4. Fill of all kinds, both dried in the fun and in the air, and either falted or frozen. Thofe prepared in the lalt manner are preferred by many.
" 5. The flefh of bears, thecp, and birds, which is partly falted, partly hung or fmoked, and fome preferved in calks with four or fermented whey poured over it.
" 6 Mifoff, or whey boiled to cheefe, which is very good. But the art of making other kinds of good cheefe is loft, though fome tolerably palatable is fold in the eaft quarter of Iceland.
" 7: Beina firiug, bones and cartilages of beef and mutton, and likewife bones of cod, boiled in whey till they are quite diffolved: they are then left to ferment, and are eaten with milk.
" 8 Skyr. The curds from which the whey is \{queezed are preferved in caks or other veffels; they are fometimes mixed with black crow-berries or juni-per-berries, and are likewife eaten with new milk.
" 9. Syra, is four whey kept in cakks, and left to ferment; which, however, is not reckoned fit for ufe till a year old.

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"10. Blanda, is a liquor made of water, to which Ieland. a twelfh part of fyra is added. In winter, it is mised with the juice of thyme and of the black crowberries.
". II. They likewife eat many vegetables, fome of which grow wild, and fome are cultivated; alfo thell. fifh and mufhrooms."

The Icelanders in general eat three meals a-day, at feven in the moning, two in the alternoon, and nine at night. In the noming and evening they commonly eat curds mixed with new milk, and fometimes with juniper or crow-berries. In fome parts, they alfo have pottage made of rock.grafs, which is very palatable, or curdled milk boiled till it becomes of a red colour, or new milk boiled a long time. At dinner, the food confifts of dried fifh, with plenty of four butter; they allo fometimes eat frefh fith, and, when pofible, a little bread and cheefe with them. It is reported by fome, that they do not eat any fifh till it is quite rotten; this report perhaps proceeds from their being fond of it when a little tainted : they however frequently eat filh which is quite freln, though, in the fame manner as the relt of their food, often without falt.

The common beverage is milk, cither warm from the cow or cold, and fometimes boiled : they likewile ufe butter-milk with or withont water. On the coalls they generally drink blanda and four milk; which is fold after it is okimmed at two fifths of a rixdollar per calk: fome likewife fend for becr from Copenha. gen, and lome brew their own. A few of the principal inhabitants alfo have claret and coffee. The com. mon people fometines drink a kind of tea, which they make from the leaves of the dryas octopetala, and the veronica officinalis.

On the coafts the men employ themfelves in fifh-Employing, beth fummer and winter. On their return home, ment, mawhen they have drawn and cleaned their filt, they give nufactures, them to their wives, whofe care it is to dry them. In 8 the winter, when the inclemency of the weather prevents them from fifhing, they are obliged to take care of their cattle, and fpin wool. In fummer, they mow the grafs, dig turf, provide fuel, go in fearch of fheep and goats that were gone affray, and kill cattle. They prepare leather with the Spirae ulmaria inftead of bark. Some few work in gold and filver; and others are inflructed in mechanics, in which they are tolerable proficients. The women prepare the fih, take care of the cattle, manage the milk and wool, few, fpin, and gather eggs and down. When they work in the evening, they ufe, inffead of an hour-glafs, a lamp with a wick made of epilobium dipt in train oil, which is contrived to burn four, fix, or eight hours.

Among the common people of Iceland, time is not reckoned by the courfe of the fun, but by the work they have done, and which is prefcribed by law. According to his prefcription, a man is to mow as mucb hay in one day as grows on 30 fathoms of manured foil, or 40 fathoms of land which has not been manured ; or he is to dig 700 pieces of turf eight feet long and three broad. If as much fnow falls as reaches to the horfes bellies, a man is required daily to clear a piece of ground futficient for 100 hheep. A womar is to rake together as much hay as three men can mow, or to weave three yards of wadmal a-day.

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The wages of a man are fixed at four dollars and 12 yards of wadmal; and thofe of a woman at two dollars and five yards of wadmal. When men are fent a-fifhing out of the country, there is allowed to each man, by law, from the 25 th of September to the $14^{\text {th }}$ of May, fix pounds of butter, and 18 pounds of dried finh eviry week. This may feem to be 100 great an allowance; but it muft be remembered that they have nothing elfe to live upon. When they are at home, and can get milk, \&cc. every man receives only five pounds of dried fith and three quarters of a pound of butter a-week.

The food and manner of life of the Icelander: by no means contribute to their longevity. It is very rare indeed to fee an inhabitant of lceland exceed the age of 50 or 60 ; and the greater part are attacked by grievous difeafes before middle age. Of thefe the fcurvy and elephantiafis or leprofy are the sorft. They are alio lubject to the gout in their hands, owing to their frequent employment in filling, and handling the wet filhing-tackle in cold weather. St Anthony's fire, the joundice, pleurify, and lownefs of firits, are frequent complaints in this country. The fmall-pox alfo is exceedingly fatal, and not long ago deftroyed 16.000 perions. By thefe difeales, and the frequent famines with which the country has been afflicted, the inhabitants arc reduced to a much fmailer number than they formerly were, infomuch that it is computed they do not in all exceed 60,002 .

The exports of Iceland confift of dried fih, falted mutton and lamb, beef, butter, tallow, train-oil, coarfe woollen cloth, ftockinge, gloves, raw wool, fheep-fkins, lamb-2kins, fox-furs of various colours, eider doun, feathers, and formerly fulphur; but there is no longer a demand for this mineral. On the other hand, the Icelanders import timber, fifling-lines and hooks, tobacco, bread, horfe-thoes, brandy, wine, falt, linen. a little filk, and a few other necefläries, as well as fuperfluities for the better fort. The uthole trade of Iceland is engroficd by a monopoly of Danes, indulged with an exclufive charter. This company maintains factories at all the harbours of Iceland, where they exchange their foreign goods for the merchandife of the country; and as the balance is in Fa vour of the Icclanders, pay the overplus in Danihh money, which is the only current coin in this ifland. All their accounts and payments are adjufted aceording to the rumber of fini: two pounds of filh are worth two fillings in fpecie, and $4^{8}$ fih amount to one rixdollar. A Danilh crown is computed at 30 filh: whet falls under the value of 12 fin cannot be paid in money; but mult be bartered either for fifh or roll-tobacco, an ell of which is equal to one fifh. The weights and meafures of the Icelanders are nearly the fame with thofe ufed in Denmark. The Icelanders being neither numerous nor warlike, and altogether unprovided with alms, ammunition, garrifons, or fleets, are in mo condition to defend themfelves from invafion, but depend entirely on the protection of his Danifh majefly, to whe nithey are fuhjeet. The revenues which he draws from this ifland confif of the inconse of divers eflates, as royal demefry, amounting to about 8000 dollars per annem; of the money paid by the conmany for an exclufive trade, to the ralue of 20,000 dellars;

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and of a fixcd proportion in the tythes of fifi paid in Iccian: fome particular difricts.

Iccland is noted for the volcanoes with which it :olcanzes abounds, as already mentioned, and which feem to be néIceland. more furious than any yet difovered iu the other paits of the globe. Indeed, from the latelt accounts, it would feem that this miferable country were litile other than one continued volcano. Mount Hecla has been commonly fuppofed to be the only burning mountain, or at leaft the principal one, in the illand: (fee Hyclis). It has indeed been more taken notice of than many othe's of as great extent, partly from its having had more frequent eruptious than any fingle one, and partly from its fituation, which expofes it to the fight of thips failing to Greeniand and North America. But in a lift of eruptions publihed in the appendix to l'ennant's Aretic Zoolozy, it appears, that out of 51 remarkable ones, only one third have procecded from Hecla, the other murutains it feems being no lels active in the work of delluction than this celebrated one. Thefe cruptions take place in the mountains covered with ice, which the inhabitants call Yokuls. Some of thefe, as appuars from a large map of Iceland made by order of his Danifh majelty in 1734 , have been fwallowed up. Protably the great lakes met with in this country may have been occafoned by the linking of fuch mountains, as feveral inftances of a fimilar nature are to be met with in other parts of the world. The great Icelandic lake called Myvatu may probably have been one. Its bottom is entirely formed of lava, divided by deep cracks, which fhelter during winter the great quantity of trout which inhabit this lake. Is is now only 30 feet deep, but originally was much deeper; being nearly fllled u? in the year 1718 by an eruption of the great mountain Krafle. The fiery flream took its courfe towards Myvalu, and ran into it with an horrid noife, which continued till the year 1750 .
" The mountains of Iceland (fays Mr Pennant) are of two kinds, primitive and polterior. The former confift of itrata usually regular, but fometimes conf:: fed. They are formed of different forts of fone without the leait appearance of fire. Some are compofed of fand and free-fone, petrofilex or chirt, flaty or fifile fone, and various kinds of earth or bole, and Ateatitiz; different forts of breccia or conglutinated flones; jaf pers of different kinds, Iceland cryftal ; the commois rhomboid fpathum, chalcedonies ftratified, and botryoid: zeolites of the moft elegant kinds; cryftals, and various other fubllances that have no relation to volcanoes. Thefe primitive mountains are thofe called Jokuls, and are higher than the others. One of them, called 尼fan or Rias, is 6000 feet high. It feems to be compofed of great and irregular rocks of a daris gray colour, piled on each other. Another, called Enneberg, is about 3000 feet high; the Snafifld yokul, 2287 yards; the Sncefieldnas or promontory of Snefield is from 300 to 400 fathoms. Harnflrand or the coaft by the rorth Cape Nord is very high, from 300 to 400 fathoms. The rocks of Drango are feven in number, of a pyramidal figure, rifing out of the fea at a fmall diffance from the cliffs. four of which are of a vaft height, and have a moft magnificent appearance.
"Enfluard from the Snafield begins the Eifberge, H 2 Soaring

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Iceland. foaring to a vaft height; many parts of which have felt the effects of fire, and in fome of the melted rocks are large cavities. Budda-lekkur, a rock at one end of this mountain, is alfo volcanic, and has in it a great cavern hung with Raloctitce. The name of Solvahamar is given to a tremendous range of volcanic rocks, compofed entirely of flags, and covered in the feafon with fea-fowl. It would be endlefs, however, to mention all the places which bear the marks of fire in various forms, either by having been vitrified, changed into a fiery colour, ragged and black, or bear the marks of having run for milcs in a floping courfe towards the fea."

Thefe volcanoes, though fo dreadful in their effects, feldom begin to throw out fire without giving warning. A fubterraneous rumbling noife heard at a confiderable diftance, as in other volcanoes, precedes the eruption for feveral days, with a roaring and cracking in the place from whence the fire is about to burff forth; many fiery meteors are obferved, but generally unattended with any violent concuftion of the earth, though fometimes earthquakes, of which feveral inftances are reccled, have accompanied thefe dreadful conflagrations. The drying up of fmall lakes, flreams, and rivulets, is alfo confidered as a fign of an impending eruption; and it is thought to haften the eruption when a mountain is fo covered witls ice, that the holes are Aopped up through which the exhalations formerly found a free paflage. The immediate fign is the burtting of the mafs of ice with a dreadful noife; flames then iffue forth from the earth, and lightning and fire balls from the fmoke; flones, athes, \&c. are thrown out to vaft diftances. Egbert Olafsen relates, that, in an eruption of Kattle gian in 1755, a fone weighing 290 pounds was thrown to the diftance of 24 Englifh miles. A quantity of white pumice fones is thrown up by the boiling waters; and it is conjectured with great probability, that the latter proceeds from the fea, as a quantity of falt, fufficient to load feveral horfes, has frequently been found after the mountain has ceafed to burn.

To enumerate the ravages of fo many dreaful volcanoes, which from time immemorial have contributed

15 The cour:tiy aimoit deforated by an esup tion is ${ }_{3} 7^{8} 3$. to render this dreary country fill lefs habitable than it is from the climate, would greatly exceed our limits. It will be fufficient to give an account of that which happened in 1783 , and which from its violence feems to have been unparalleled in hiftory.

Its firft figns were obferved on the ift of June by a trembling of the earth in the weftern part of the province of Skapterfiall. It increafed gradually to the ith, and became at lall fo great that the inhabitants quitted their houfes, and lay at night in tents on the ground. A continual fmoke or fteam was perceived rifing out of the earth in the northern and uninhabited parts of the country. Three firefpouts, as they were called, broke out in different places, one in Ulfarfdal, a little to the eaft of the river Skapta; the other two were a little to the weltward of the river called Ihverficfiot. The river Skapia takes its rife in the northeaft, and running firt weflward, it turus to the fouth, and falls into the fea in a fouth-eaft direction. Part of its channel is confined for about 24 Englah miles in length, and is in fome places 200 fathoms deep, in others 100 or 150 , and its breadth in fome
places 100,50 , or 40 fathoms. Along the whole of this lielinnt. part of its courfe the river is very rapid, though there are no confiderable cataracts or falls. There are feveral other fuch confined channels in the country, but this is the molt confiderable.

The three fire-fpouts, or 'Areams of lava, which had broke out, united into one, after having rifen a confiderable height into the air, arriving at latt at fuch an amazing alitude as to be feen at the diftance of more than 200 Englifh miles; the whole country, for double that diftance, being covered with a fmoke or fleam not to be defcribed.

On the 8th of June this fire firt became vifible. Vaft quantities of fand, afhes, and other volcanic matters were ejected, and fcattered over the country by the wind, which at that time was very ligh. The atmofyhere was filled with fand, brimftone, and afhes, in fuch a manner as to occafion continual darknefs; and confiderable damage was done by the pumice ftones which fell, red hot, in great quantities. Along sith thefe a tenacious fubftance like pitch fell in valt quantity; fometimes rolled up like balls, at other times like rings or garlands, which proved no lefs deftructive to vegetation than the other. 'This flower having continued for three days, the fire became very vifible, and at laft arrived at the amazing height already mentioned. Sometimes it appeared in a continued ftream, at others in flafles or flames feen at the diftance of 30 or 40 Danifi miles ( 180 or 240 of ours), with a continual noife like thunder, which lafted the whole fummer.

The fame day that the fire broke out there fell a vaft quantity of rain, which running in freams on the hot ground tore it up in large quantities, and brought it down upon the lower lands. This rain-water was much impregnated with acid and other falts, fo as to be highly corrofive, and occafion a painful fenfation when it fell on the hands or face. At a greater diltance from the fire the air was exceffively cold. Snow lay upon the ground three feet deep in fome places; and in others there fell great quantities of hail, which did very much damage to the cattle and every thing without doors. Thus the grafs and cvery kind of vegetation in thofe places nearef the fire was deftroyed, being covered with a thick cruft of fulphureous and footy matter. Such a quantity of vapour was raifed by the contelt of the two adverfe elements, that the fun was darkened and appeared like blood, the whole face of nature feeming to be changed; and this obfcurity feems to have reached as far as the illand of Britain ; for during the whole fummer of 1.783 , an obfcurity reigned throughout all parts of this ifland; the atmofphere appearing to be covered with a continual haze, which prevented the fun from appearing with his ufual fplendour.

The dreadful fcene above defcribed lafted in Iceland for feveral days; the whole country was laid wafte, and the inhabitants fled everywhere to the remoteft parts of their miferable country, to feek for fafety from the fury of this unparalleled tempeft.

On the firt breaking out of the fire, the river Skapia was confiderably augmented, on the eaft fide of which one of the fire fponts was fituated; and a fimilar overflow of water was obferved at the fame time in the great river Piorfa, which runs into the fea a little

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Iceland. little to the eaftward of a town called Orrebakka, and into which another river called Tuna, after having run through a large tract of barren and uncultivated land, empties itfelf. But on the 1 th of June the waters of the Skapta were leffened, and in lefs than 24 hours totally dried up. The day following, a prodigious ftream of liquid and red hot lava, which the fire-fpout had difcharged, ran down the channel of the river. 'This burning torrent not only filled up the deep channel above mentioned, but, overtlowing the banks of it, fpread itfelf over the whole valley, covering all the low grounds in its neighbourhood; and not having any fufficient outlet to empty itfelf by, it rofe to a valt lieight, fo that the whole adjacent country was overflowed, infinuating itfelf between the hills, and covering fome of the lower ones. The hills here are not continued in a long chain or feries, but are feparated from one another, and detached, and between them run little rivulets or brooks; fo that, befides filling up the whole valley in which the river Skapta ran, the fiery ftream fpread itfelf for a confiderable difance on each fide, getting vent between the above mentioned hills, and laying all the neighbouring country under fire.

The fpouts ftill continuing to fupply frefh quantities of inflamed matter, the lava took its courfe up the chamel of the river, overllowing all the grounds above, as it had done thofe below the place whence it iffued. The river was dried up before it, until at laft it was flopped by the hill whence the Skapta took its rife. Finding now no proper outlet, it rofe to a prodigious height, and overtlowed the village of Buland, confuming the houfes, church, and every thing that food in its way: though the high ground on which this village itood feemed to enfure it from any danger of this kind.

The fery lake fill increafing, fpread itfelf out in length and breadth for about 36 Englih miles; and having converted all this tract of land into a fea of fire, it flretched itfelf toward the fouth, and getting out again by the river Skapta, rulhed down its channel with great impetuofity. It was ftill confined between the narrow banks of that river for about fix miles (Engliih); but coming at laft into a more open place, it ponred forth in prodigious torrents with amazing velocity and force ; fpreading itfelf now towards the fouth, tearing up the earth, and carrying on its furface flaming woods and whatfoever it met with. In its courfe it laid wafte another large diftrict of land. The ground where it came was cracked, and fent forth great quantities of fleam long before the fire reached it; and every thing near the lake was either burnt up or reduced to a fluid ftate. In this fituation matters remained from the 12 th of June to the 13 th of Auguft; after which the fiery lake no longer fpread itfelf, but neverthelefs continued to burn; and when any part of the furface acquired a cruft by cooling, it was quickly broken by the fire from below; and tumbling down among the melted fubftance, was rolled and toffed about with prodigious noife and crackling; and in many parts of its furface, fmall fonuts or at leaft ebullitions, were formed, which continued for fome length of time.

In other directions this dreadful inundation proved
no lefs deftructive. Ilaving run through the s:arrow Ieiand part of the channel of Skapta as carly as the 12 th of June, it Aretched out itfelf towards the weft and fouthwelt, overllowing all the flat country, and its edge being no lefs than 70 fathoms high at the time it got out of the channel of the river. Continuing its deftructive courle, it overflowed a number of villages, running in every direction where it could find a vent. In one place it came to a great catarach of the river Skapta, about 14 fathoms in height, over which it was precipitated with tremendous noife, and thrown in great quantities to a very confiderable diftance. In another place it fopped up the channel of a large river, filled a great valley, and deftroyed two villages by approaching only within 1 co fathoms of them. Others were overtlowed by inundations of water proceeding from the rivers which had been fopped in their courfes; until ai laft all the paffages on the fouth, eaft, and weft; being ftopped, and the fouts fill fending up incredible quantities of frelh lava, it burlt out to the north and north-eaft, fpreading over a tiact of land 48 miles long and 36 broad. Here it dried up the rivers Tuna and $A x a \int y d r i$; but even this valt effufion being infufficicient to exhauft the fubterraneous refources of liquid fire, a new branch took its courfe for about eight miles down the channel of the river Ilwerfisfiot, when coming again to an open country, it formed what our author calls a frall lake of fire, about twelve miles in length and fix in breadth. At laft, however, this branch alfo Alopped on the 16 th of Augult; the fiery fountains ceafed to pour forth new fupplies, and this motf aftonithing eruption came to a period.

The whole extent of ground covered by this dread. ful inundation was computed at no lefs than 90 miles long and 42 in breadth ; the depth of the lava being from 16 to 20 fathoms. Two rivers were dried up, 20 or 21 villages were deftroyed, and 224 people lolt their lives. The extent above mentioned, however, is that only on the fouth, eaft and weft; for that towards the north being over uninhabited land, where no body cared to venture themfelves, was not exastly known. Some hills were covered by this lava: others were melted down by its heat ; fo that the whole had the appearance of a fea of red-hot and melted metal.

After this eruption two new illands were thrown up from the bottom of the fea. One, about three miles in circumference, and about a mile in height, made its appearance in the month of February 1784 , where there was formerly 100 fathoms water. It was about 100 miles fouth-reft from Iceland, and 48 from a clufter of fmall iflands called Gierfugal. It continued for fome time to burn with great violence, fending forth prodigious quantities of pumice-fones, fand, \&c. like other volcanoes. The other lay to the north-welt, between Icelasd and Greenland. It burnt day and night without intermiffion for a confiderable time; and was alfo very high, and larger than the former. Since that time, however, one or both of thefe illands have been fisallowed up.

All the time of this great eruption, and for a confiderable time after, the whole atmofliere was loaded with fmoke, ftcam, and fulphureous vapours. The fun was fometimes wholly invifible; and when it could be feen was of a reddifh colour. Moft of the fifhe-

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Ielend. ries were deflroyed; the banks where the fill uled to refort being fo changed, that the filhermen could not krow them again ; and the fmolie was fo thick, that they could not go far out to fea. The rain water, falling through this fmoke and tleam, was fo impreyneted with falt and fulphureous matter, that the hair and even the fkins of the catle were deftroyed; and the whele grafs of the ifland was covered with foot and jitciny matter, that what had efcaped the deftructive effects of the fire became poifonous; fo that the cattle died for want of food, or perifhed by eating thase unwholefone vegetables. Nor were the inhabitants in a much better fituation, many of them having Ioft their lives by the poiionous quailies of the fmoke and fleam with which the whole atmolphere was filled; particularly old people, atid fuch as had any complaint in the breatt and lungs.

Before the fire broke cut in Iceland, there is faid to have been a very remarkable eruption in the unimbabited parts of Greenland; and that in the northen parts of Norway, oppofite to Greenland, the fire uis vifible for a long time. It was allo related, that when the wi:d was in the north, a great quantity of allies, pumice, and brimfone, fell upon the north and weft ceafls of Iccland, which continned for the whale furnmer whenever the wind was in that quarter; and the air was always very inuch im-regnated with a thick fmoke and fulphureous fmell.

During the fall of the fharp rain formeriy mentioned, there was obferved at Trondheim, and other places in Norway, and likewife at Faw, an uncommon fall of tharp and falt rain, which totally deftroyed the leaves of the trees, and every recetable it fell upon, by forching them up, and cauling them to wither. A corfiderable quantity of afhes, fand, and other volcanic matters, fell at Faro, which covered the shole furface of the ground whenever the wind blew from Iceland, though the diflance between the two places is not lefs than 430 miles. Ships that were failing betwist Copenhagen and Norway were frequently cosered with afthes and fulphurous matter, which fuck to the matls, fails, and decks, befmearing them all over with a black and pitchy fubftance. In many parts of Holland, Germany, and other northern coun:ries, a fulphureous vapour was obferved in the air, accompanied with a thick fmoke, and in fome places a light gray-coloured fubfance fell upon the earth every night; which, by yielding a bluifh flame when thrown into the fire, evidently ihowed its fulphureous nature. On thofe nights in which this fubftance fell in any quantity, there was little or no dew obferved. Thefe appeaiances continued, more or lefs, all the months of July, Auguft and September.

Some curious particulars relative to the ancient flate of this ifland have lately been publifhed by a Mr Vhorkelyn, a native of the country. From his work it appears that Iceland, for a very confiderable face of time, viz. from the beginning of the soth to the middle of the $13^{\text {th }}$ century, was under a republican form of government. At firlt the father, or head of every family, was an abfolute lovereign; but in the progrefs of population and improvement, it became neceflary to form certain regulati ns for the fettlement of di'putes concening the frontiers of different eflates. For this purpofe the lieads of th- families concerned af
fembled themfelves, and formed the outlinies of a re- Icelar.d. public. In the mean tine they caried on a profperous trade to different parts; fending fhips even to the Levant, and to Conftantinopic, at that time celcbrated as the oaly feat of literature and humanity in the world. Deputies were likewife fent from this ifland over land to that capital, for the improwement of their laws and civilization ; and this a whole century before the fir't crulade. In thefe ancient Icelandic laws, therefore, we meet with evident traces of thofe of the Greeks and Romans. For example, befides a body of writien laws which were written every third year to the people, they had two min cliofen annually by the heads of families, with confular power, not oniy to enforce the laws then in being, tut when thefe proved deficient, to act as nectflity required.

Thefe laws do not appear to have inflisted capital punilhments upon any perfon. Murderers were banifled to the swoc.t; that is, to the interior and uncultivated parts $n$ the ifland: where no perfon was allowed to approach them within a certain number of fathoms. In -ales of :azimant for lefter crimee, the friends of $t=$ oxfoder were allowed to fupply him with neccilias OThe culprit, however, night be killed by any pcion who found him without his bounds; and he misft: even be lunted and deflroyed in his fanctuary, povided he did not withdraw himfelf from the ifland within a twelvemonth after his fentence, which it was fuppofed tee might accomplifh by means of the annual arrival and departure of lhips. Every man's perfora was free until he had forfeited bis rights by fome crime againll fociety; and fo great was their refpect for indeperidence, that great indulgence was allowed for the power of palfion. If any provoking word or behaviour had been ufed, no punithment was inflicted on the party who refented it, even though he fhouid have killed his adverfary.

By the laws of Iceland, the poor were committed to the protection of their neareft kindred, who had a right to their labour as far as they were able to work, and afterwards to indemnification if the poor perfon fhould acquire any property. Children were obliged to maintain their parents in their old age; but if the latter had neglected to give them good education, thes were ablolved from this duty.

While the republic of Iceland continued free and independent, thips were fent from the ifland to all parts of the world. Till very lately, howeser, not a lup belonged to it, the little comruerce it enjoyed being monopolized by a Danilh conupany, until in 1786 it was laid open to all the fubjects of Denmark. "There is at prefent (fays Mr Pennant *) a revival of the cod *Append filhery on the coalt of Iceland from our kingdom. A- to Aprnis bout a dozen of veffels have of late failed from the ifle Zoutugy. of Thanet, and a few from other parts of Great Bri-p. 19. tain. They are either floops or brigs from 50 to 80 tons burden. A lugfail bunt, fuch as is ufed in the herring fifhery, failed lan fealon from Yarmouth thus equipped. The crew confifted of five men from the town, and five more taken in at the Orkneys. They had twelve lines of 120 fathoms each, and 200 or 300 books; fix heading knives, twelve gutting and twelve fplitting knives. They take in 18 tonis of falt at Leith, at the rate of three tols, to every thoufend filh; of which fix or feven thouland is a load for a veffel of

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Icetend this kind. They go to fea about the middle of April ; return by the Orkneys to land the men; and get into their post in the latter end of Augult or beginaing of Septeniber. Pytlicas fays, that Iceland lies fix days filing from Great Britain. A veffel from Yarmouth was, in the latt year, cxactly that time in its voyage ficm the Orkneys to Iceland. With a fair wind it srig't Le performed in far lefs time; but the winds aWout the Terroe incs are generally changeable.

ICELAND AFaie; a kind of precious flone met with in the ithands of Ícelatd and Afcenion, employed by the iewcliers is an agate, thought too foft for the purpofe. It is fuppofed to be a volcanic product ; being fulit, black, and of a glafy texture. When held between the eyc and the light, it is femitranfparent and greeninh like the glafs bottles which contain much iron. In the illands which produce it, fuch large pisces are met with that they cannot be equalled in any glafs. houfe.

ICENI, the ancient name of the people of Suffork, Noriclk, Cambridgetlire, and Huntingdonhire, in England.

ICh-diex. See Heraldry, chap. iv. fect. 2.
ICHNEUMON, in Zuology. See Viverra, Mam. malial Index,

Ichseumos, is alfo the name of a genus of ties of the hyinenoptera order. See Estomology Index.

ICHNOGRAPHY, in Per/pecize, the view of any thing cut off by a plane, paraliel to the horizon, jutt at the bate of it.- The word is derived front, the Greek soro; fooflep, and rowow I zurite, as being a defcription of the footfeps or traces of a work.

Anrong painters it fignifies a defcription of images or of ancient flatues of marble and copper, of bults and femi-bufts, of paintings in frefco, mofaic works, and ancient pieces of miniature.

Ichnography, in Architecture, is a tranfverfe or horizontal fection of a building, exhibiting the plot of the whole edifice, and of the feveral rooms and apartments in any fory; together with the thicknefs of the walle and partitions; the dimenfions of the doors, windows, and chimneys; the poojectures of the columns and piers, with every thing vifible in fuch a feation.

ICHOGLANS, the grand fignior's pages ferving in the feraglio. Thefe are the children of Chrititian parents, either taken in war, purchafed, or fent in prefents from the viceroys and governors of diftant provinces: they are the mof Crrightly, beautiful, and well-made that can be met with: and are always reviewed and approved of by the grand fignior himfelf before they are admitted into the feraglios of Pera, Conftantinople, or Adrianople, being the three colleges where they are educated, or fitted for employment, according to the opinion the court entertains of them.

ICHOR, properly fignifies a thin watery burrour like ferum ; but is fometimes ufed for a thicker hind flowing from ulcers, called alfo fanies.

ICH'THYOCOLLA, Isriglass, a preparation from the fifh known by the name of hufu. See Acct. PEXSER. 'The word is Greck, formed of $\quad \chi^{\circ} \cup ; f_{i} / h$, and $x_{0} \lambda \lambda . x$ g/ue.-The method of making ifinglaís was long a fecret in the hands of the Rufians; but hath lately been difcovered, and the following account of it publithed by Humphrey Jackfon, Eif. in the $\sigma_{3}$ d volume of the Ph:lofophical Tranfactions.
"All authors who have hitherto delivered p:ocefles for making ichthyocolla, finh-glue, or ilinglafs, have greatly miftaken both its conflituent matter and preparation.
"To prove this affertion, it may not be improper to recite what Pomet fays upor the fubject, as he appears to be the principal author whom the reft have copied. After defcribing the filh, and referring to a cut engraved from an original in his cuftody, he fays: 'As to the mamer of making the ifinglats, the finewy parts of the fifh are boiled in water sill all of them be difolved that will diffolve; then the gluey liquos is feained, and fet to cool. Being cold, the fat is carefulty taken off, and the liquor itfelf boiled to a ju? confiftency, then cu? to pieces, and made into a twith, bent in form os a crefcent, as commonly fold; then bung upun a tring, and carefuily dried.'
"From this account, it might be rationally concluded, that cvery fpecies of fith which contained gelatinous principles would yield ifinglafs: and this parityof reafoning feems to have given rife to the hafty conclutions of thofe who ftenuoully vouch for the extraction of ifinglafs from fturgeon; but as that filh is eafily procurable, the negligence of afcertaining the fact by experiment feems inexcufable.
" In my firft attempt to difcover the conftituent parts and manufacture of ifinglafs, relying too much upon the authority of fume chemical authors whofe veracity I had experienced in many other inftances, I found myielf contantly difappointed. Glue, nut iînglafs, was the refult of every procefs; and although, in the fame view, a journey to Pultia proved fruiteefs, yet a fleady perfeverance in the refearch proved not only fucceffful as to this object, but, in the purfuit, to dilcover a refinous matter plentifully procurable in the Britinn fiheries, which has been found by ample experience to anfwer fimilar purpofes. It is now no longer a fecret, that our (A) lakes and rivers in North America are flocked with immenfe quantities of filh, faid to be the fame fpecies with thofe in Mufcory, and yielding the fineft ifinglafs; the fifheries whercof, under due encouragement would doubtlefs fupply all Europe with this valuable article.
" No artificial heat is neceffary to the production of ifnglafs, neither is the matter diffolved for this purpofe; for,

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(.1) As the lakes of North America lic nearly in the fame latitude with the Cafpian fea, particularly Lake Superiur, which is faid to be of greater extent, it was conjectured they might abound with the fame forts of firh; and in confequence of public advertifements diftributed in various parts of North America, offering premiums for the founds of furgeon and other fifh, for the purpofe of making ifinglafs, feveral frecimens of finc ilinglafs, the produce of fin taken in thefe parts, have been lately fent to England, with proger atteftations as to the unlimited quantity which may be procured.

Ien:hyo- for, as the continuity of its fibres would be deftroyed by $\underbrace{\text { colla. }}$ folution, the mafs would become brittle in drying, and fnap fhort afunder, which is always the cafe with glue, but never with ifinglafs. The latter, indeed, may be refolved into glue with boiling water; but its fibrous recompofition would be found impracticable afterwards, and e fibrous texture is one of the mofl diftinguilhing chara\&teriftics of genuine ifinglafs.
"A due confideration that an imperfect folution of ifinglafs, called fining by the brewers, poffeffed a peculiar property of clarifying malt-liquors, induced me to attempt its analyfis in cold fubacid menftruums. One ounce and a half of good ifinglafs, fteeped a few days in a gallon of ftale beer, was converted into good fining, of a remarkably thick confflence : the fame quantity of glue, under fimilar treatment, yielded only a mucilaginous liquor, refembling diluted gum-water, which, inIlead of clarifying beer, increafed both its tenacity and turbidnefs, and communicated other properties in no refpect correfponding with thofe of genuine fining. On commixing three fpoonfuls of the folution of ifinglafs with a gallon of malt liquor, in a tall cylindrical glafs, a valt number of curdly maffes became prefently formed, by the reciprocal attraction of the particles of ifinglafs and the feculencies of the beer, which, increaling in magnitude and fpecific gravity, arranged themfelves accordingly and fell in a combined fate to the bottom, through the well-known laws of gravitation; for, in this cate, there is no elective attraction, as fome have imagined, which bears the leaft affluity with what frequently occurs in chemical decompofitions.
"If what is commercially termed long or fhort flapled i/inglafs be fleeped a few hours in fair cold water, the entwifted membranes will expand, and reaflume their original beautiful (в) hue, and, by a dexterous addrefs, may be perfectly unfolded. By this fimple operation, we find that ifinglafs is nothing more than certain membranous parts of fifhes, divefted of their native mucofity, rolled and twifted into the forms above-mentioned, and dried in open air.
" The founds, or air-bladders, of frefh water fifh in general, are preferred for this purpofe, as being the moft traufparent, flexible, delicate fubflances. Thefe conntitute the fineft forts of ifinglafs; thofe called book and ordinary faple are made of the inteftines, and probably of the peritonæum of the fifh. The belluge yields the greatefl quantity, as being the largeft and mon plentiful firh in the Mufcovy rivers; but the founds of all frell-water fifh yield, more or lefs, fine ifinglafs, particularly the fmaller forts, found in prodigious quantities in the Cafpian fea, and feveral hundred miles beyond Aftracan, in the Wolga, Yaik, Don, and even as far as Siberia, where it is called kle or kla by the natives, which implies a glutinous matter; it is the bafis of the Ruffian glue, which is preferred to all other kinds for its flrength.
"The founds, which yield the finer ifinglafs, confift of parallel fibres, and are eafly rent longitudinally; but the ordinary forts are found compofed of double mambranes, whofe fibres crofs each other obliquely, re-
fembling the coats of a bladder: hence the former are more readily pervaded and divided with fubacid liquors ; but the latter, through a peculiar kind of interwoven texture, are with great difficulty torn afunder, and long refift the power of the fame menftruum ; yet, when duly refolved, are found to act with equal energy in clarifying liquors.
"Ifinglafs receives its different fhapes in the following manner:
" The parts of which it is compofed, particularly the founds, are taken from the fifh while fweet and frefh, flit open, wafhed from their flimy fordes, divelted of every thin membrane which envelopes the found, and then expofed to flifien a little in the air. In this flate, they are formed into rolls about the thicknefs of a finger, and in length according to the intended fize of the flaple: a thin membrane is generally felected for the centre of the roll, round which the reft are folded alternately, and about half an inch of each ex. tremity of the roll is turned inwards. The due dimenfions being thus obtained, the two ends of what is called Joriflaple are pinned together with a fmall wooden peg; the middle of the roll is then preffed a little downwards, which gives it the refemblance of a heart-fhape; and thus it is laid on boards, or hung up in the air to dry. The founds, which compofe the long-ftaple, are longer than the former; but the operator lengthens this fort at pleafure, by interfolding the ends of one or more pieces of the found with each other. The extremitics are faftened with a peg, like the former; but the middle part of the roll is hent more confiderably downwards, and, in order to preferve the thape of the three obtufe angles thus formed, a piece of round flick, about a quarter of an inch diameter, is faftened in each angle with fmall wooden pegs, in the fame manner as the ends. In this fate, it is permitted to dry long enough to retain its form, when the pegs and fticks are taken out, and the drying completed; laftly, the pieces of ifinglafs are colligated in rows, by running pack-thread through the peg-holes, for convenience of package and exportation.
" The membranes of the book fort, being thick and refractory, will not admit a fimilar formation with the preceding; the pieces, therefore, after their fides are folded inwardly, are bent in the centre, in fuch manner that the oppofite fides refemble the cover of a book, from whence its name; a peg being run acrofs the middle, faftens the fides together, and thus it is dried like the former. This fort is interleaved, and the pegs run acrofs the ends, the better to prevent its unfolding.
" That called cake-ijngla/s is formed of the bits and fragments of the flaple forts, put into a flat metalline pan, with a very little water, and heated juit enough to make the parts cohere like a pancake when it is dried ; but frequently it is overheated, and fuch pieces, as before oblerved, are ufelefs in the bufinefs of fining. Experience has taught the confumers to reject them.

"Ifinglafs

(R) If the tran!parent ifinglafs be held in certain pofitions to the light, it frequently exhibits beautiful prifmatic colours.

## I C H

" Yninglafs is beft made in the fummer, as frof gives it a difagreable colour, deprives it of weight, and impairs its gelatinous principles; is fahionable forms are umecelfary, and frequently injurious to its mative qqualities. It is common to find oily putrid matter, and cxurice of infects, between the implicated membranes, which, through the inattention of the cellarman, often contaminate wines and malt-liquors in the act of clarification. Thefe peculiar thapes might probably be introcuced originally with a view to conceal and difyuife the real fubftance of ifinglafs, and preferve the monopoly; but, as the mafk is now taken off, it cannot be doubted to anfwer every purpofe more effectually in its native ftate, without any fubsequent manufacture whatever, efpecially to the principal confumers, who hence will be enabled to procure fufficient fupply from the Britill colonies. Until this laudable end can be fully accomplifhed, and as a fpecies of ifinglafs, more eafily produceable from the marine fifheries, may probably be more imnsediately encouraged, it may be andactured as follows:
"The founds of cod and ling bear great analogy with thofe of the accipenfer genus of Linneus and Artedi; and are in general fo well known as to require no particular defcription. The Newfoundland and Iceland filhermen fplit open the filh as foon as taken, and throw the back-bones with the founds annexed, in a heap; but previous to incipient putrefaction, the founds are cut out, wafhed from their flimes, and falted for ufe. In cutting out the founds, the intercoftal parts are left behind, which are much the beft; the Iceland filhermen are fo fenfible of this, that they beat the bone upon a block with a thick Aick, till the pockets, as they term them, come out eafily, and thus preferwe the found entire. If the founds have been cured with falt, that muft be diffolved by fleeping them in water before they are prepared for ifinglafs; the frefh found muft then be laid upon a block of wood, whofe furface is a little elliptical, to the end of which a fmall hair-brufh is nailed, and with a faw knife the membranes on each fide of the found muft be fcraped off. The knife is rubbed upon the brufh oceafionally, to clear its teeth; the fockets are cut open with fciffars, and perfectly cleanfed of the mucous matter with a coarfe cloth; the founds are afterwards wailhed a few minutes in lime-water in order to abforb their oily principle, and laftly in clear water. They are then laid upon nets to dry in the air; but if intended to refemble the foreign ifinglafs, the founds of cod will only admit of that called book, but thofe of ling both fhapes. The thicker the founds are, the better the ifinglafs, colour excepted; but that is immaterial to the brewer, who is its chief confumer.
"This iinglafs refolves into fining, like the other forts, in fubacid liquors, as ftale beer, cyder, old hock,

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Sc. and in equal quantities produces frmilar efiect Ictul. . upon turbid liquore, except that it falls fpecdicr and elofer to the bottom of the veflel, as may be demo: frated in tall cylindrical glaftes; but foreign iluoglafs reains the confiltency of fiming preferably in warm weather, owing to the greater renacity of its native mucilage.
"Vegetable acids are, in cvery refpect, beit adapted to fining : the mineral acids are too corrolive, and even infalubrious, in common beverage.
" It is remarkable, that, daring the converfion of ifinglafs into fining, the acidity of the menfrumm feems greatly diminifhed, at leaft to tafte; not on account of any alkaline property in the ifinglafs, probably, but by its enveloping the acid particles. It is likewife reducible into jelly with alkaline liquors, which indeed are folvents of all animal maters; even cold lime-water diffolves it into a pulpous magma. Notwithitanding this is inadmiffible as fining, on account of the menitruum, it produces admirable effects in other refpects: for, on commixture with compofitions of plafter, lime, \&c. for ornamenting walls expofed to vicil fitudes of weather, it adds firmnefs and permanency to the cement; and if common brick-mortar be worked up with this jelly, it foon becomes almolt as hard as the brick itfelf; but, for this purpofe, it is more commodioufly prepared, by diffolving it in cold water, acidulated with vitriolic acid; in which cafe, the acid quits the jelly, and forms with the lime a felenitic mals, while, at the fame time, the jelly being deprived in fome meafure of its moifure, through the formation of an indiffoluble concrete amongft its parts, foon dries, and hardens into a firm body; whence its fuperior frength and durability are eafily comprehended.
"It has long been a prevalent opinion, that furgeon, on account of its cartilaginous nature, would yield great quantities of ifinglafs; but, on examination, no part of this filh, except the inner coat of the found, promifed the leaft fuccels. This being full of rugce, adheres fo firmly to the external membrane, which is ufelefs, that the labour of feparating them* fuperfedes the advantage. The inteftines, however, which in the larger fifh extend feveral yards in length, being cleanfed from their mucus, and dried, were found furprifingly ftrong and elaflic, refembling cords made with the inteftines of other animals, commonly called caigut, and, from fome trials, promifed fuperior advantages when applied to mechanic uperations."

Ifinglafs is fometimes ufed in medicine; and may be given in a thin acrimonious flate of the juices, afte: the fame manner as the regetable gums and mucilages, regard being had to their different difpofition to puirefcence.

# I C H T H Y O L O G Y. 

## CHAP. I. HISTORY OF ICHTHYOLOGY.

Definition.

ICHTHYOLOGY (from the Greek "\%rus, " a fim," and $\lambda$ royos, "difcourfe"), is that part of zoology which treats of fifhes.

Fithes are fuch animals as have a heart with one auricle and one ventricle, with cold red blood, which inhabit water, and breathe by means of gills. Moft of the fpecies are likewife diftinguifhed by fins and fcales.

Difficulty of flulying firhes.

Ancent
writers on
fistes.

The very element in which fifhes live prevents us from following their motions with exactnefs, from fudying their intinets, and from noting with fidelity their fpecific differences. Their colours often vary, according to the accidental circumftances of age, fex, climate, feafon, breeding, \&c. and often vanifh in the open air, or with the principle of life. On the fame lhores unknown kinds feldom occur; and, when they do, they may pafs unnoticed by the illiterate fifherman. Hence, the natural hillory of the fnny tribe has, in all ages, been involved in greater obfcurity than that of land animals, which are more readily fubjected to the inveftigation of the learned and the curious. Hence, Arifoile, Pliny, and Rliar, in treating of filhes, have mingled much fable with fome truths, and have even confounded claffes which nature has diftinctly feparated. Such, too, is the ambiguity which now attaches to their vague and unfcientific nomenclature, and fuch, we may add, is the indifpenfable limitation of our plan, that we fhall forbear enlarging on the ichthyological portions of their writings. The claffical and inquifitive reader may, however, derive entertainment and fome inftruetion from a careful perulal of their text, and of Some of the moft ingenious and judicious annotations of more recent fcholars and naturalifts. ' $\Gamma$ o the names juft mentioned, we may add that of Athencous, who, in the feventh book of his Deipnofopliffe, difcourfes of fithes. Ovid celebrates them in his Halieuticon; and his example has been followed, not without fuccefs, by Oppian, a Greek poet, who flourifhed in the fecond century, under the reign of Caracalla. Alffonius, a sative of Bourdeaux, who died towards the conclufion of the fourth century, in his admired poem on the Mofelle, has not forgotten to fing of its inhabitants.

In the more downward periods of the dark and middle ages, no writer of eminence appears in this department of natural hifory. Indeed, the firt who laid the foundation of ichthyological arrangement was Pierre Belon, a French phyfician, bom in 1518, and advantageoully know, by lis travels in Judxa, Greece, and Arabia, as well as by his writings in natural hiltory. Some of his diviinons of filhes, as the eleventh, which fomprifes the Rat feceies that are not cartilaginous; the : welfth, thofe that are both fat and cartilaginous; the thirtcenth, which inclutes the fytali, \&ic. are deduced from natur a refemblances; but others are more fanciful; and the wooden cuts are deficient in accuracy and
acute obferver, who wrote with pleafing naïveté, and who Mould rank high in the eflimation of the learned world, when we reflect on the few refources of which he could avail himfelf. His hiftory of fithes appeared in 1551 . That of his countryman, Rondclet, was publinted three years afterwards, and exhibited more accurate defcriptions and figures, with many excellent remarks, the refult of his own obfervation. In point of arrangement, however, Rondelet's work is extremely Rondelet, imperfect, and even puerile. He tells us, for example, \&xc. that, after very mature deliberation, he refolved to begin with the gilt-head, becaufe it was beft known to the ancients and moderns, and highly prized for its delicacy. He had, however, the merit of exciting a general talte For the fludy of ichthyology; and Salviani, Bofiveti, Conrad Gefincr, Pifon, \&ic. who folluwed him in rapid fucceffion, contributed their thare to the flock of fcientific facts, though they made few advances to the conftrufion of a natural order.

In 1605 , Aldrovandus, who publifhed a large com-Aldrovanpilation on natural hiliory, diftributed the fifles accord- dus. ing to the nature of their reffdence; thus, his firf book treats of thole that frequent rocks; the fecoud is deroted to the littoral ; the third to the pelagian, \& c. Several authors, whom we cannot ftay to name, difplayed their talents, with more or lefs felicity, on the fame fubject. But their labours were eclipfed by thofe of Willoughby, whofe work, entitled De Hifloria Pif-willoughcium, was printed at Oxford in 1686 , and unfoldedby. many new and accurate notions relative to the anatomy and phyfiology of fifhes. His arrangement may be confidered as an improved modification of that of Belon. The celebrated Ray publifhed, in 1707 , his Synup/is Methodica Pifcium, which may be regarded as an abridged and, corrected view of Willoughby's larger work, and as indicating, if not fixing, a feries of genera. This valuable defcriptive catalogue continued to be appealed to as a Aandard, till the combined genius of Artedi and Limmeus effected an important reform in the fcience of ichthyology.

Artedi, the countryman and friend of the greatArtedi. Swedith naturalift, had adopted his principles, and was engaged in applying them to the fyftematic illuftration of filhes, when death prematurely arrefted the profecution of his defign. His illuftrious friend put the finifhing hand to his papers, and publifhed them in the form of two octavo volumes, under the title of Bibliothece Ichithyologica, and Philofophia Ichehyologica, which Walbaum re-edited, in four volumes, in 1792 . Thus, then, to Mrtedi we may alcribe the merit of having firft tra-Ins metho ced the outlines of that claffification of fifhes which has of arrange. now become fo popular in Europe; for he firf inftitu-ment, ted orders and genera, and defined the charakters on which thefe divifions are founded. Independently of the cetaceous tribes, which are now generally claffed vith the rammalia, and of which we have treated in

Hitsyy the article Cerology, his method confited of four great divilions orvorders, namely, the Malacopterygian, Acanthopterysian, Branshiofegous, and Chondropterygian. The firit denoted thole fpecies which have foit tins, or fins with bony rays but without 〔pines, and included twenty-one genera ; the fecond, thofe with fininy finc, containing listeen genera; the third, correfponding to the ampplitia nartes of Linnxus, which want the operculu:n, or branchioftegous membrane; and the fourth, the Linnean amplibia nantes, which have not true bones, but only cartilages, and the rays of whofe fins hardly difier from a membrane. In his firf edition of the Syitem of Nature, Linnaus wholly adopted the Artedian method. With regard to the changes which he afterwards introduced, it would be umeceffary to Itate then! in this rapid hittorical iketch, efpecially as we purpole to foliow his divifions in our fyflematic expolition.

Thofe ichthyologifts who have prooofed methods in oppolition to that of Linnetus, have ufually fallen fhort of the later in point of fimplicity. Thus Klein, who sinly attempted to rival the profefior of Upfala, diftributed filies into three fections, according as they had lungs. and wifible or invifible gills; but his fubdivifions were fo numerous and complex, that his fcheme has never been adopted. That of Gronowius was, at leat for a ferv years, much more favourably received. It is principally founded on the prefence or abfence, and the number or the nature, of the fins. The firlt clafs includes al! the cetaceous animals, and the fecond all the fithes. The choudropterysian, and the offeous or bony, form tro great divilions; and the offeous are fubdivided into branchioffegous and branchial. Thefe lalt are grouped according to the Linnean sules; but, in the formation of the genera, the number of dorfal tins is admitted as a character, which Limmens has, perhaps injudicioully, overlooked, and which gives rifes to feveral genera which are not to be found in the Syitem of Na-ture.-Brunnich laboured, with much pains and conliderable ingenuity, to combine the Linnzean and Artedian divifions; but his fyltem remained without encouragernent or fupport.- Scopoli boldly truck out a new path, and affurned the pofition of the anus as the balis of his three primary divifions. His fecondary characters fometimes coincide with thoie of Gronovius, and fometimes with thofe of Limnæus; while his third feries of dillinctions is fometimes drawn from the form of the body, and fometimes from the teeth. Gouan, the celebrated profellor of botany at Montpelier, preferved the Linniean genera, but formed his greater divifions from the union of thofe of Linnitus and Artedi. His two principal festions are, of fifhes with complete, and -of thofe with incomplete, gills; and the firt is divided into two others, viz. acanthopterygian, and malacopterygian, in each of which are ranged the apodal, jugular, tharacic, and abdomina/ fecies. The fame procefs is followed in the fecond lection, which includes the branchiuffegous and the chondropterygian.

All the authors who have juf palled under our review, with the exception of Belon, Rondelet, and Gronovius, publilhed their works without any regular feries of plates illuitrative of their defcriptions. Among thofe who embellithed their volumes with valuable figures, we have to mention Scba, in his large collection of
fubjects belonging to natural hitory, -Catclly, in his Hitay. Natural Hiffory of Carolina,-Brouffovel, in his Ickithyologia__and Block, in his Natural Hillory of Yilhes, firt't publithed at Berlin in Germain, and in French in 1785 , and recently republithed in a frall form, by Deterville, at Paris, forming part of the extenive work entitled Hy/poire Naturclle de Buffon, \&ec. Bloch's original work includes about 600 fpecies of fillec, which are generally defcribed with great accuracy, figured, as nearly as circumitances will admit, of the natural fize, and beautifully coloured. The author enters with forme minutenefs into the hillory of thofe which afford fond for man, or which fuggell facts worthy of remark. He has followed the Linnetan method, and made confiderable additions to the number of genc:a.

La Cípìde, the friend and cortinuator of Buffon, has Of La Ce likervife executed an elaborate and extenfive undertak. pēde.
ing on the natural hiltory of filles. He divides this clafs of animals into two fecondary claties, viz. the curtilaginous and the offeous. Fach of thefe fubordinate clafles confift, of four divitions, taken from the combinations of the prefence or abfence of the operculum, and of the branchial membrane ; thus, the firt divifion of the cartilaginous includes thofe filhes which have neither operculum nor branchial membrane; the fecond, thofe which have no operculum, but a membrane; the third, thofe which have an operculum, but no membrane; and the fourth, thofe which have both. The fame characters, fated in the inverfe order, determine the divifinas of the oileous fpecies. Each of thefe divifions is again diltributed into the Linnæan orders, and thefe, in turn, into the Linnæan genera. The contents of the latter, however, do not always correfpord with the enumerations in the Syltem of Nature; for the French zoologitt has withdrawn many fpecies from their former categories, and ranged them under new geners. His innovations in this refpect are, perhaps, not always improvements; and fome of his generic appellations, as gobie, gobiofore, gobiüide, gobiomore, and gobiomoroide, pomacanthe, pomacente, pomadafys, and pomatome, \&c. are too nearly allied in found and orthography, to be readily difriminated by the memory. We have, moreover, to regret that the plates are not coloured, and that they are executed on too fmall 2 fcale. Yet, after every deduction which even rigid criticifm may require from the merits of this publication, enough will remain to attell the induffry and the talents of its author, and to juftify the high rank which he has obtained among the writers on ichthyology.

Before clofing even thefe very condenfed notices, it of Pen. would be unpardonable to omit reminding our readers, nant. that the Britifh fifhes have found an able and entertaining expofitor in Mr Pennant, to whom the natural hiftory of this country is under many obligations. In the third volume of his Britifh Zoology, this author defcribes the fifhes under the three great divifons of cetaceous, cartilaginous, and bony. The later, which is by far the moft numerous, he fubdivides into four fections, entitled, agreeably to the Limman orders, apodal, thoracic, jugular, and abdorminal.

Betides the fources of information to which we have referred, the curious inquirer into the hiftory of filhes may occafionally refort to Duhamel's General Treatife

Anatemy on the Fiberies, Fabricius's Fakna Granlandica, Flaof Fihes. men on the different kinds of frell-water fithes, Forikal's Fauna Arabica, Johnfon's Hiforia Naturalis de Pijcilus et Cctis, Kolreuter's papers in different volumes of the Peterburg Tranfactions, the fourth vo-
lume of Marfigli's Danubius Pamnonico- Mysius, \&ic. Anatomy Monro's Anatormy of Fithes, Pallas's Spicilegia Zoolo. of Fithes. gica, \&k. Vicq d'Azyr's Memoirs on the Anatomy of Filles, and the two volumes of the Encyclopedici 11Ethadilize which are devosed to the article Poiluns.

## CHAP. II. ANATOMY OF FISHES.

Form of
che body

THE flape of the body of filhes is fubject to confiderable varieties. It is faid to be compreffed, when the diameter, from fide to fide, is lefs than from back to belly; and deproffed, on the contrary, when the diameter, from fide to fide, is greater than from back to bel3.. It is cylindrical, when it is circular in the greater fart of its length; enfiform, or fiword-fhaped, when the back and belly terminate in a tharp edge, or when the body gradually tapers from the head to the tail; cultrated, or knife-flaped, when the back is fomewhat Hat, and the angle below acute; carinated, or keelmaped, when the back is rounded, and the under part of the belly acute, through its length; oblong, when the longitudinal diameter is much longer than the tranfverie; oval, when the longitudinal diameter not only exceeds the tranfverfe, but the bafe is circular, and the apex more acute ; orbicular, when the longitudinal and tranfverfe diameters are nearly equal ; lamellated, or fpear-llaped, when oblong, and attenuated at both extremities; cunciform, or wedge-fhaped, when the body gradually flattens towards the tail ; conical, :Shen it is cylindrical, and grows gradually more flemder towards the tail ; ventricofe, when the belly is very prominent; gibbous, when the back prefents one or more protuberances; annulated, when the body is furrounded by rings, or elevated lines; articulated, when it is covered with connected and. bony plates; trigon, setragon, pentagon, and hexagon, when the fides are plain, with three, four, or lix longitudinal angles; if the number of thefe angles exceed fix, it is termed a porlys.on.

The furface of the body of fifhes is termed naked, when it is deflitute of fcales; foaly, when provided with them ; fmoo:h, when the fcales are without angles, furrows, roughnefs, or inequalities; lubricous, or ilippery, when invefted with a mucous or fliny humour; saberculated, or rough, when covered with prominent warts or tubercles; papillous, when covered with flefhy points; Jpinous, when the afperities are elongated, and pointed at their extremities; loricated, or mailed, when the body is inclofed in a hard, callous, or bony integument, or in fcales fo clofely united as to feem but one; fafciated, or banded, when marked with :ranfve:fe zones from the back to the belly; firiped, when $m$ aked with very narrow, fcattered, and coloured ftreaks; vittated, when marked with longitudinal zones along the fide, from the head to the tail; reticulated, or checquered, when marked with lines forming the appearance of net-work; pointed, or dotted, when marked with points, either longitudinally difpofed, or without order; and variegated, when of different colours.

The parts of the body are either external, or internal: the former include the head, trunk, and fins; the later, the /eelt:on, mufcles, and vijcera.

1. The head is always placed at the auterior part The head, of the body. and reaches irom the extremity of the sic. nofe to the gills.

Several of the technical terms aiready defined, are applied to the head as well as to the whole body; but others, which are more approgriate, require to be explained. Obtufe or truncated, denotes that the head in blunt, or terminated by a tranfverfe line; acute, that it terminates in an acute angle; fanting, that it prefents an inclined plane. from the top of the anterios part to the extremity of the nofe; aculeattd, or prickly, that it is armed with fharp points or fpines; unarmed, that it is without fpines or tubercles; beardlefs, that it is without cirrhi, \&c.

The head contains the mouth, nofe, jaws, lips, teeth, tongue, palate, noftrils, eyes, branchial opercules, the branchioftegous membrane, the aperture ot the gills, and the nape.

The mouth is that cavity, which is terminated in front by its own orifice; on the fides, by the branchial opercula; and behind, by the throat. It is fiperior, when placed at the upper part of the head; inferior, when at the lower part; vertical, when it defcends perpendicularly from the upper part; tranfuerfe, or horizontal, when it is parallel to the furface of the water when the finh fwims; oblique, when it is neither vertical nor horizontal ; tubular, or fffular, when the orifice is narrow, round, and deep ; fimous, or Hat-nofed, when the orifice is not prominent or deep.

The nofe, or frout, is the fore part of the head, extending from the eyes to the extremity of the jaws. It is cufpidated, when its apex terminates in a tharp point or brifle; /patula-/baped, when its extremity is flattened and extended ; bifid, forked, or lobed, when its extremity is divided into two lobes; triquetraus and tetraquetrous, when it has three or four flat fides; and re. flex, when it is incurved towards the belly.

The jawes are always two in number, and differ in different \{pecies chiefly in refpect of figure and proportion. They are fubulate, or awl-fhaped, when they are rounded at the bafe, and are gradually attenuated towards the apex; carinated, or keel-fhaped, when the lower jav is longitudinally ridged, either without or within; equal, when both are of the fame length; unequal, when one projects beyond the other; naked, when not covered with lips; labiate, when covered with one or two lips; edentulated, when deflitute of teeth ; dentated, or toothed, when furnilhed with teeth of unequal fize ; dentato-crenated, when the bones are formed into the appearance of teeth; cirrated, or cirrofe, when furnilhed with cirrhi, or brillly membranaceous appendages, which hang from one or both jaws; vaginated, or lheathed, when the margin of one covers that of the other; arched, or covered, when furnifhed with a membranaceous reil, attached before, and loofe behind,
belind, within suhich, and the upper or under patt of i.e ar alh, the filh lays its tongue, or difcharges water from is mouth; and mozeatle, when they can be the out or drawn in.

Ti, e ïps are obrious only in a few fillies, and are cither of a ilefly or bouy confiftence. They are alfo diftincuihed into plicalcd, or confinting of folds, and resractile, or capable of being drawn out or in, at the pleafure of the animal.

The teeth are actute, when their extremity terminates in a point; obtufe, when it is rounded; granular, when the teeth are of the fize aud ihape of finall grains; plane, when flat or the lides; femi--fagittate, when hooked on one fide only; forrated, when toothed like a faw on the margin; emarginate, when the extremity is fomewhat cleft; recurved, when inclined towards the gullet ; parallel, when of the fame direction, length, and figure; diverging, when the apices fand wide, or diflant from each other; fimilar, when they are all of the fame fize and figure; diffimilar, when fome are acute, and others obtufe; ordinate, when dilpofed in one or more rows; confufed, when crowded, and not difpofed in any regular order.

The rongue is termed acute or obtufe, according as its extremity terminates in a point, or is rounded ; it is emarginate, or bifid, when the extromity is divided into two lobes; carinated, when angulated on the upper or lower furface ; dentated, when its furface is furnilhed with tecth; and papilious, when covered with Althy points.

The palate is that part of the mouth which is included between the bafe of the jaws and the origin of the cefophagus. It is either finooth, when its furface is deltitute of tubercles, teeth, and alperities; or dentictulated, when furnilhed with teeth.

The noflrils are orilices, almof always fituated in the roftrum, before the eyes. They are antcrior, when they occupy the fore part of the roilrum, and are fomewhat ditant from the eyes; polferior, when fituated at the bafe of the roftrum, and very near the eyes; fuperior, when on the crown of the head, between the eyes, and clofe to them; cylindrical, when they form a tube; jingle, or folitart, when there is only one on each fide of the head; and double, when there are two on each fide.

The eyes are always two, and are compofed of two principal parts, which as they are vilible from without belong to the defcription of the external ftruture. Thefe parts are the pupil and the iris. The firt occupies the centre of the globe; and is ufually fonerical, but fometimes oval; and the fecond is the coloured circle which furrounds the pupil, and is often furnihed with a diftinct ring. It is, for the moit part black or gold-coloured, but fometimes it affumes a filvery hue. -The eyes are faid to be coverid, when they are enveloped in the 纤in, or in a nictiating membrane; fimi-covered, when this membrane is arched, or lunulated, or perforated like a ring ; naled, when deftitute of a nietitating membrane; cersical, when fituated on the crown of the head; laseral, when placed on the fides of the head; binate, when they are both on the fame fide of the head; plane, or depreffed, when the convexity of the ball does not exceed the furface of the head; concex, when the convexity projects beyond
this furface; falion?, when the eyes ate very prominent.

The branchial opercics, are fcaly or bony proceffes, Branchial fituated on both fides of the head, behind the eycs, opercles. clofng the aperture of the gills, and fuftaining the branchial membrane. They are termed fimple, when compoled of a fingle piece; diblayllous, triphyllous, or tetraphyllous, when confifting of two, three, or four pieces; flexile, or foft, when they can be ealily bent; fub-arcuated, when the polterior margin is rounded; fifulous, when the branchial opening feems to be excavated out of the fubltance of the opercula; acuminaied, when the hinder plate runs out into a fharp procefs; ciliated, when the pofterior margin is fringed, or fet with membranous letaceous appendages; ficnaled, or bridled, when connected with the body by means of a membranc; fcabrous, when their furface is covered with afperities; flriaied, when marked with hollow and nearly parallel lines; radiaicd, when the lines run like rays, from the centre to the edge; graied, whon the lines appear in no regular order; aculeared, whens the pofterior margin is terminated by one of more fpines; ferrated, when it is cut like the tecth of a fas; fcaly, when the lurface of the opercles is covered with fcabs.

The branchial, or branchiofegous membrane, is a true And memfin, formed of cartilaginous crooked bones, joined by a brase. thin membrane, lurking under the opercula, to wlych it adheres, and is capable of being folded or expanded, as neceffity requires. This membrane is faid to be patent, when it projects beyond the margin of the opercula; retracted or latent, when it is concealed under them; covered, when concealed under them, yet $\int 0$ as to be rifible without hurting them.

The aperture of the gills, is a cleft commonly lateral, whick opens between the opercula and the trunk, by means of the gills. It is arcuated, or arched, when it reprefents a erefcent; operculated, when quite covered by the opercula; pise-jbaped, when in the form of a tube. Its place, in fome of the cartilaginous \{pecies, is fupplied by vents, or Jpiracles, which are either round, arched, lateral, or inferior, i. e. placed underneath the body.

The nape is the hind and torminating part of the head, which is attached to the firft vertebra of the trunk, in the region of the gills. It is carinated, when its furface is flarply angulated; plane, when flat, and on a level with the body; and firloated, when ridged or furrowed.
2. The trusi is that part of the body, which ex-The trunk. tends from the nape and branchial aperture, to the extremity of the tail. It comprehends the gills, throat, thorax, back, fides, abdomen, lateral line, anus, tail, and fcales.

The gills, or branchie, confit, for the moft part, of four crooked, parallel, unequal bones, furnifhed, on the outer or coavex part, with fnall foft appendages, like the beards of a feather, and generally of a sed colour. They are aculcated, when the concave or interior part has fines inftead of tubercles; anomalous, when fome are ciliated, others tuberculated, or of a different ifructure: donudcd, when wanting operclec, the branchiottegous membrane, or both; pecfinated, when the conves or ex:erior part, towards the branchial aperture,

Antrray is furninited with red fetaceous rays, or lamellax; withdrawn, when not confpicuous, lying neaser the throat than the aperture; fimple, when fumilhed either with filaments or tubercles; approaching, when they correfond to the fame aperture.

The throat is that part which correfponds to the branchial apertures, and is placed between them. It is fwelling, when it exceeds the level of the body and the head; carinated, when angulated underneath; plane, when on a level with the thorax and heal.

The thorax is that part which begins at the extremity of the throat, and is terminated by a line drawn to the infertion of the pechoral fins.

The back is the upper part of the trunk, extending from the nape to the origin of the tail. It is apterygious, without fins; monopterysious, dipterygious, \&c. with one, or two fins; conzex, higher in the middle than toward the fides; ferrated, having a deep longitudinal furrow for the fame purpofe.

The fides are that part of the trunk, which reaches from the gills to the anus, between the back and the abdomen. They are fometimes marked with zones, lines, fpots, or points.

The abdomen is the under part of the trunk, between the pofterior eatremity of the thorax and the origin of the tail. It is corinated, or acute through its length; Perrated, when the fcales forming the carina are difpofed like the tceth of a faw ; plane, when without 'prominence or depreflion.

The lateral lime ufually commences at the extremity of the branchial opercles, runs along the fides, and terminates st the caudal fip. It is formed by lines, dots, or frall tubercles. It is Araight, when it prefents no inflexion through its length; curved, when it inclines to the back or belly; Croken, when divided into two or more parts, which follow different direstions; oblitcrated, when fcarcely perceptible; doukle, when there are two on each fide; finooth, when without prickles or tubercles; aculeated, when furnithed with Pines; defcending, when it runs obliquely from the head to the tail; inferior, when fituated on the lower part of the fide; loricatcd, or mailed, when rough with final! bones, or hard fcaly tubercles; mean, when fituated in the middle of the fide; oblolete, when nearly effaced ; porous, when punctured with fmall holes; finluous, when bent in a waving line; folitary, when there is one line on each fide; fuperior, when on the upper part of the fide, near the tack; handed, when covered "ith a longitudinal zone, coloured or filvery.

The arhus is the external orifice of the rectum. It is jugular, when lituated under the branchial opercles; pociorai, when under the gills; mean, when equally remored from the head and the extremity of the tail; remote, when near the tail.

The tail is the folid part of the trunk, which it terminates, being fituated behind the anus. It is round, as in the lamprey and cels; carinated, when its furface wefents fome ीlarp angle; muricated, when befet with Tre es or tutercles; apterygious, when deflitute of fins; thitermious, when the lin is divided at the bafe.

The focles are pellucid, cartilaginous, or horny tegrement, which ufually cover the trunk. They are ain al when ore extremity is rounded, and larger than the other; orbiculate, when nearly round ; fmooth, when
deflitute of fenfible angles or afperities; ciliated, when Antom the margin is fet with fetaceous procefies; ferrated, of Fine when the margin is toothed like a fuw; inbricoted, when the fales partly cover one another, like tiles on a roof; rare, when fenlibly feparated from one another; deciducus, when they eafily fall off; rcnacious, when they are detached with difficulty; resrote, when feparated from one another; verticillate, when furrounding the body in rings.
3. The fins contill of Ievera! rays connefted by a Firs. tender film, or membrane; and they are raifed, expanded, or moved in various directions, by means of appropriate mulcles. The rays of the fins are either jointed and tlexible fmall bones, whole extremity is often divided into two parts; or hard and prickly, without divifion at the extremity. In fome cafes, thofe on the back of the filh are furnilhed with membranaceous appendages, firmple, or palmated, and adhering to the apes or fides. - The fins, according to their pofition, are denominated dorfal, pecforal, ventral, anal, or caudal.

The dorfal fins are fituated on the upper part of the body, between the head and the tail. Their number varies from one to three, and fo gives rife to the epithets monopterygious, dipterygio s, and tripterygious. If the back has no fin, it is laid to be apteryzions. The form, fize, and fituation of the dorfal firis have likewife fuggefted various technical appellations; but few of thefe require to be particularly defined. We thall notice, therefore, only the fle/by, which are covered with a thick fkin , or mufcular fubflance; and the ramentaceous, which are furnihed with membranaceous or filamentous appendages.

The pectoral fins are fituated on each fide, about the aperture of the gills. In fome fpecies, they are wanting; in others, folitary, or one on each fide; in a few they are double, i. e. twn on each fide; in fome, they are falcuted, or arched above, and concave below.

The ecntral or infirior fins are always placed on the under part of the fifl ; but at a greater dillance from the mouth. They are abdominal, when placed in the belly, behind the pectoral fins, and not fised in the fternum, but in the offa pelvis; difform, when they have a fpine or cirrhus, befides the oflicles; jugular, when placed under the throat before the pectoral fins, and fixed to the clavicles; multiradiated, when they have feveral rays, though feldom exceeding feven; thoracic, when placed under the pectoral fins, often a little behind them, but always fixed to the fernum.

The anal fin is placed between the anus and the caudal fin. It is lifurcated, or treo-forked, when the oflicles in the middle are florteft; conlefing, when united with the caudal fin; longitudinal, when it extends from the anus to the tail; poferior, when placed at the end of the tail, near the caudal fin.

The caudal fin is fituated vertically, at the extremity of the body. It is equal, or entive, when its rays are of equal length; lanceolated, when the rays in the middle are longer than the others'; emarginate, when they are ihorter than the others; bifid, when they are very thort; trifid, when the fin is divided into three lobes; coalefing, when united with the dorfal and anal fins; cufpidated, when attenuated at the apex, or terminating in a fetaceous point ; fetiferous, when a filiform appendage procceds from the divifion.

Internal

## Intcrnal Parts.

1. The skeremos of a filh is the affemblage of bones which contlisutes the frame-work of its body. The number of thefe bones is not uniform in each individual, but varies according to age and ipecies. They may be conveniently divided into thofe of the head, thorax, abdomen, and fins.

The licad contains a confiderable number of bones; that of the perch, for example, has eighty. As the limited nature of our plan precludes minute fpecification, we thall only indicate a few of the molt important. The fenll covers the wholc head, its fides frequently forming the fockets of the eyes, the temples, and the cheeks. The upper and lower jaze-bones are placed on the fore part of the head. The upper is more or lefs of an arched form. In fome filles it is wanting, and its place fupplied by a portion of the fkull. The lower jaw is ufually arched or triangular, and its length regulates that of the frout, or rollimm. The bones of the palate are, for the moll part, four, viz. two on each fide of the fauces, oval, and nearly plane, often crowded with teeth, or rough with tubercles, or furrowed tranfverfely, the bafe of the one connected with the apex of the other. The gills are attached to thefe officles on each fide by a cartilage. The opercular bones are fituated at the hind part of the jaws, on each fide of the head, and behind the eyes. In fo:ne fpecies, they form a part of the upper jaw. The kyoid bone is an officle fituated between the two fides of the lower jaw, ferving as a bafis for the tongue, prefenting the figure of a V , and occafionally furnifhed with a hook.

The thorax is a cavity principally formed by the vertebre, the fernum, the clavicles, and the fcapulx. The verttbre form the back-bone, which reaches from the fkull to the extremity of the tail. 'They are ftronger and thicker towards the head, and grow weaker and more fender towards the tail. Each fpecies has a determinate number of vertebre, which grow with the body. They are furnifhed with tranfiverfe and fpiny proceiles, the former of which are marked by tranfverfe lines, by the number of which, it is fuppofed, the age of filies may be known. The fpinal marrow is contained in the canal which pafles through the vertebre. The תernum in fifhes is not cartilaginons, as in uther anima's, but always beny. Its form varies confiderably, being fometimes triangular, femetimes rounded before, and pointed behind, but moff frequently of a rhomboidal figure. It occupies the fore part of the thorax, and clofes that cavity. The clavicles are two bones fituated tranfverfely behind the opening of the gills ; and are fonmetimes formed by two officles united. They are attached to the firl vertebra. The fcapule are two Hlat, rhomboidal, or arched bones, fituated on the lateral fide of the body, under the pofterior margin of the clavicles, and ferving as a bafe to the pectoral fins. When the fcapulx are wanting, the pectoral furs are atiached to the fiernum, or to the margin of the clavicles.

The abcomen ferms a cavity always larger than that of the thorax, extending from the extremity of the latter to the anus. It is encompaffed by the ribs and the offa pelvis. The ribs are bony arches, fituated obliquely on the lateral parts of the abdomen,
having their upper extremity articulated with the ex. Anatomy tremity of the tranfverfe procefies of the vertebrae. of Finhs. Their number is very variable. In thofe fpecies which are without ribs, the abfence of the latter is compenfated by the length and direction of the tranfverife procelles of the vertebre. The offa petivis are two bones which defend the vifcera contained in the abdomen. The ventral fins are ufuaily attached to their pofterior margin. When thefe fins are wanting, or when they are attached under the throat, or on the thorax, the offa pelvis are alfo wanting. The tail is compofed of certain boncs, which terminate the sertebral column. The procefies of each vertebra of the tail are incident to great variety in refpect of number and dimenfions.

The fins arc formed of a certain number of oflicles, comected to one another by firm membranes. The dorfal and anal fins are fupported by the intcr-fpinous bones (ol/a inter/pinofa), which lie between the pointed procefies of the vertebre, and are connected with them by a ligament. The rays of the anal fin have nearly the fame conformation as thofe of the dorfal.
2. The nuscirs are an affemblage of fmatl bundles of Mufcles. flethy fibres, partly red, and partly whitifh, enveloped in a common membrane. The firf of thefe is called the fefloy portion of the innfle, the fecond, the tendon. $_{\text {. }}$ Each mufcle thus compofed, is fufceptible of contraction and dilatation. The former is accompanied by a vifible fwelling, hardening, wrinhling, and thortening of the mufcle, and the latter by its elongation, expantion, and recovery of its former fofnefs and tlexibility. Its force, in general, depends on the quantity of fibrous matter which enters into its compofition, and its moving power on the length and fize of the fibres. The mitcles vary much in relpect of number, fize, and fituation. There are two which proceed from the head to the tail, along the fides of the body, and thence denominated lateral mufles. Lach of thefe feems to be cumpofed of feveral iranfverfe mufcles, which are fimilar and parallel. There are four fituated at the caudal fin, namely, three fuperior, and one inferior. Of the two former, one is ftraight, and two are oblique. The fourth occupies the half of the lower estremity of the tail. There are likewife four at each pectoral fin, namely, two erectors and two depreflors; the two former fituated on the external furface of the clavicles and fcapulx, and the two latter under thefe parts. Each rentral fin has three mufcles, one erector and two depreflors ; the firt placed over the whole external furface of the os pelvis, and the two latter on the internal. furface of the fame part. The carinal nuufcles of the back and tail are fender, and clofely united, occupying the fpace that is left between the lateral mufcles. Their number is always proportioned to that of the dorfal firs. Fifhes, for example, which have ne dorfal fin, have but one pair of carinal mufcles, thofe which have one dorfal fin, have two pairs, and thofe which have two dorfal fins, have thrce pairs, viz. one pair between the firll and fecond fin, another between the two fins, and a third between the fecond dorfal and the caudal fin. The proper inter-fpinous mufcles are thiofe whofe office it is to raile or deprefs the dorfal and anal fins. Each inter-fininous ray is furnilhed with four, two crectors, and two depreffors. The dilating mufcle of the branchioflegous membrane is finall, and attached by its anterior extremity, partly under the angle of the

Anatomy lower jaw, and partiy to the fides of the os peliers. It as Fithes.

Grein and other organs. is fixed to the branchial membrane by as many tendons as there are tendons in the membrane.
3. Orc.ivs and viscera.--The lirain of filhes is a very finall organ, relative to the fize of the head. It is divided into tinree equal lobes, of which the two an- terior are contiguous; the third being placed behind, and forming the corebelluin. Theie three lobes are furrounded by a frothy maiter, refembling faliva. In this region the optic and olfactory nerves are eafily difcorered.

Tlie afophayus, or gullct, begins at the bottom of the throat, and deicends, in a ftraight line, to the upper orifice of the fiomach. It is membranous, imooth, and lined with a mucous humour.

The fiomach is a membranous fack, fometimes cylindrical or fpherical, and fometimes divided into two lobes.

The fwimming, or air-bladder, or found, is an oblong, white, membranous bag, fometimes cylindrical, fometimes elliptical, and fometimes divided into two or three lobes, of different lengths. It is ufually fituated between the vertebre and the fomach, and included within the peritoncum. In fome filhes it communicates with the flomach, and in others, with the refophagus. The flat fifhes are unprovided with this nrgan.

The intefines, which in man are placed tranfverfely, have a longitudinal pofition in filhes, and are all connected with the fubltance of the liver. They are in general very fort, making only three turns, the laft of which terminates in a common outlet or vent. The appendices, or fecondary inteflines, are very numerous, compofing a groupe of worm-like proceffes, all ultimately terminating in two large canals, opening into the firlt inteltine, into which they difcharge their peculiar quid.

The liver is commonly of a yellowifh colour. It is fituated on the right or left fide, or in the anterior region of the abdomen, of whofe cavity it fills about two thirds. It is fometimes fimple, and fometimes di.. vided into two, three, or more lobes. It ufually contains a large portion of oil or fat.

The gall-lladder is oval or oblong, and lies under the right fide of the liver. It communicates with the flomach or the inteflines, by means of the cyftic duft and the choledochic canal.

The folcen varies in form and pofition. Sometimes it is all of a piece; fometimes divided into many lobes, which adhese only by very flender filaments. In fome individuals it is black, in others it has the red hue of clotted blood. It is placed near the backbone, and at a place where it is fubject to an alternate conftriction and dilatation, from the preffure of the air-bag, which is fituated in its neighbourhood.

Almoit all filhes are provided with the urinary bladder. Its form is nearly oval. It terminates under the tail ; and has no communication with the rectum.
'The kidreys are two flat bodies, of a pyramidal form, as long as the abdomen, and of a reddifi colour. They are attached to the vertebre, feparated from the cavity of the abdomen by the peritonceitm, and frequently prolonged from the diaphragm to the region of the urinary bladder.

The diaphragm is a white and fhining membrane
which feparates the thorax from the abdomen. This partition is partly fleihy and partly tendinous.

The prritonxam, or membrane invelting the contents of the abdomen, is thin and of a blackifh colour.

The ora, in the females, are dippofed into two large oblong bodies, one on each fide of the abdomen; and the milt or foft-roe, in the male, appears in a fimilar form in the fame part.

The pericardium is a fmall bag which contains the heart.

The heart is a vifcus fituated on the fternum, under the pofterior giils. It saries confiderably in form, being formetimes flat, frequently triangular or pyramida!. \&ic. Its polition is not tranfverle, as Artedi has alleged, but longitudinal, as in quadrupeds. It conifls of one ventricle and one auricle. The fides of the former are rugofe, and exhibit many fmall cavities. The latter is a very flender mufcular bag, with a larger cavity than that of the rentricle, and forming the communication between the heart and

The venous finus. The capacity of this laft is fill greater than that of the auricle. Its polition is tranfverfe, correfonding to that of the diaphragm. It communicates with the auricle by a large aperture, and receives at the other end three arge trunks of veins.

The aorta is an artery attached to the apex of the heart, and fending out numberlefs branches to the gills, on which it is fubdivided into ramifications fo minute as to efcape the eye unlefs affifted by a glafs.

The blood of fifhes is red, and the red particles are not round as in the mammalia, but oval as in the amphibia.

Dr Monro's elaborate defcription of the abforbent fiffam in finhes, is thus itated by Dr Shaw in the fourth volume of his General Zoology.
"On the middle of the belly, immediately below the outer $\mathbb{R}$ in, a lymphatic veffel runs upwards from the vent, and receives branches from the fides of the belly and the fin below the vent; near the head this lymphatic paffes between the two pectoral fins, and having got above them, receives their lymphatics: it then goes under the juncture of the two bones which form the thorax, where it opens into a net-work of very large lymphatics which lie clofe to the pericardium, and almont furrounds the heart : this net-work, befides that part of it behind the heart, has a large lymphatic on each fide, which receives others from the kidney, runs upon the bone of the thorax backwards, and when it has got as far as the middle of that bone, fends off a large branch from its infide to join the thoracic duct; after detaching this branch, it is joined by the lymphatics of the thoracic fins, and foon after by a lymphatic which runs upon the fide of the filh; it is formed of branches, which give it a beantiful penniform appearance. Befides thefe branches, there is another fet lying deeper, which accompanies the ribs; after the large lymphatic has been joined by the above-mentioned veffels, it receives others from the gills, orbit, nofe, and mouth : a little below the orbit another net-work appears, confling in part of the veffels above defcribed, and of the thoracic duf: this net-work is very complete, fome of its veffels lying on cach fide the mufcles of the gills, and from its internal part a trunk is fent out, which terminates in the jugular vein.
"The lacteals run on each fide of the mefenteric ar-

























Phytology tonics, amainoniong frequently acrofs tho fe veflels: the ?nd
Hab:rutes of rifles. receptacle into which they enter is very large in proportion to them, and confifts at its lower part of two branches, one of which lies between the duodenum
























veflels, communicates with the network near the orbit, where its lymph is mixed with that of the lymphatics from the polterior part of the gills, and from the luperiot fins, belly, \&c. and then from this net-work a vel-



























 by gulf. from paling through them, until the proper quantity of air has been drawn from it. The covers then open, and give it a free paffage : by which means the gills al. So are again opened, and admit a frefh body of water.

VoL. XI. Part I.






























fand, without motion, food, or breathing, till the warmth of firing routes them from their torpor. As

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Fhyfo'ogy the bottom of the fea, lowever, probably preferves a and. Habutices of Fille:pretty equal degree of heat at all times, the myriad tibes which inhabit it are permanently fecured againt the inclemency of the feafon. The tardy circulation of the blood in fithes may likewife, in fome meafure, depend on their mode of refpiration. The heart of the carp contrachs only thirty-fix times in the courfe of a minute, or about half as often as that of a man. In the carnivorous fpecies of fithes, as the flark, pike, falmon, \&cc. the heart is comparatively larger, the circulation more rapid, and the breathing more powerful. Active, robuft, and courageous, they are alfo lefs en. cumbered with fat, and their liver is lefs bulky than in the other fpecies. It deferves to be remarked, however, that the blood in filhes, after being thrown by the heart into the ramifications of the gills, is collected ayain by a vaft number of fmall veins, fomewhat in the fame manner as in the mammalia ; but inftead of returning to the heart again, thcfe veffels unite and form a defcending aorta, without the intervention of an auricle and ventricle, a circumftance which may alfo materially contribute to the flownefs of the circulation. For fome time it was believed, that the cartilaginous fifhes were provided with internal lungs, an idea which has been abandoned by later phyfiologits, who have proved, that the fuppofed lungs are only a peculiar modification of gills. To the want of lungs we may afcribe the want of voice: for, though fome kinds of firhes, as thofe of the genus balifes, when feized, difcharge a quantity of air and water with a rufling noife, and the rubbing of the fins on the fcales fometimes produces an inditinct rattling found; yet both are very different from any thing like audible language that can be underflood among the individuals of a feecies.

## 2. Esternal Senfes.

Senic of
fecing.
and thabits of different fpecics. Thofe fihes which un- Phyfiology dertake long voyages, and traverfe much fpace in a and thort time, as the trout, falmon, falvelin, \&c. have the Habitudes conformation of the eye like that of birds; whofe fight of Fifhes. is very acute. Were we, indeed, to form our judge-ment of the power of vifion in fifhes merely from the external appearance of their cyes, we fhould conclude, that it is far from perfect, and that the fmall convexity of the cornea would occafion very little refraction in the rays of light; but this defect is fufficiently compenfated by the flruequre of the cryftalline lens, which is almoff finerical, and more denfe than in terrefrial animals. In its natural flate, it is tranfparent, and not much harder than a jelly; and it forms that little hard pea-like fubflance which is found in the eyes of fithes after boiling. As the rays fall on this convex humour, undergo a powcrful refraction, gradually approach one another, and unite at the axis of the eye, where they form their impreflions. In moft fifhes the eyes are naked; but thofe of the Nkate tribe are diftinguifhed by a digitated curtain, which hangs over the pupil, and which may exclude the light when the animal refts; and, in the genera Gadus and Blemnius, the eyes are covered with an internal nictitating membrane.

That fifhes poffefs the fenfe of hearing, has been al. Hearing. ternately maintained and denied by the molt celebrated naturalifts, fince the days of Aritotle. Among the moderns, Artedi, Linnæus, and Govan bave contended for the non-exiftence of this faculty, although fome very ordinary facts naturally lead to an oppolite conclufion. It is well known that fifhes are affected by noife, and that they feem to be alarmed at loud explofions. On the coaf of Brittany, they are frequently chafed into nets by the found of a drum ; in China, by that of the tans-tam; and in ponds, they have been taught to affemble at the ringing of a bell. Thefe founds, however, it has been alleged, produce certain changes or vibrations in the water, which are feen by the animals, or which affect them in forme way different from acting on the organ of hearing, an organ which naturalifts and anatomifts had long laboured in vain to difoover. As the eruptions of Eina are fometimes felt at Malta, and an earthquake will fometimes vifibly agitate the fea, at the diftance of many leagues, it is fuppofed that fmaller commotions in the atmofphere may communicate fimilar impreffions to the finny tribes, independently of the medium of hearing. The laborious Elein fpared no pains in fearching for fome hidden organ, by which he hoped to demonftrate that filhes are not more deflitute of the faculty of hearing than other animals; but though his inveltigations proved fruitlefs, we are indebted to him for many curious obfervations on the number and figure of the fimall bones which are to be found in the head of various fpecies. Geoffroi alfo made fome important difcoveries, but without arriving at decilive refults. At length, the abbé Nollet proved, that water is a conductor of found, and that even the toncs and articulation of the human voice may be tranfmitted through its medium. All that now remained to fet the quellion completely at ref, was to deteet the parts of the auditory organ in filhes, and thefe the celebrated Camper has dillinctly revealed in confequence of numerous diffections. Fur his particular defcription of the figure and mechanifm

Phyfiolugy of the whole apparatus, we mult refer our readers to and Habitudes paper which he has inferted in one of the volumes of the Yournal des Scavans Etrangers. Suffice it for the prefent to note, that this curious organ is contained in the cavity of the head, and that it confints of three lcmicircular, cartilaginous canals, and an elattic bag, which includes one or two very moveable officles, tlating in a jelly more or lefs thick, and llightly adhering to the contiguous parts. The moment that the vibration of the water, which is analogous to that of the air, is communicated to the filh's head, the imprefion is tranfmitted to the officles, which, acting in the ratio of their mafs multiplied by the force of the impulfe, impart their movement to the whole of the claltic bag and to the femicircular canals. The fentient principle is more or lefs alive to the action of the officles on the nerves, that is to fay, in Camper's own language, " that the filh perceives found, but found peculiar to the watery element." Hunter, who obferved the fame organs in the head of fifhes, remarks that their ftructure varies in different fecies. His minute and ingenious obfervations on this fubject are publifhed in the 77 th volume of the Philofophical Tranfactions. "Fifhes, particularly of the thate kind, (fays Dr Shav) have a bag at fome diftance behind the eyes, which contains a fluid, and a foft cretaceous fubftance, and fupplies the place of the veftibule and cochlea: there is a nerve diftributed upon it, fimilar to the portio mollis in man: they have femicircular canals, which are filled with a fluid, and communicate with the bag: they have likewife a meatus extertues, which leads to the internal ear. The cod-fin, and others of the fame fhape, have an organ of hearing fomewhat finilar to the former; but inftead of a foft fubitance contained in the bag, there is a hard cretaceous fone."

The fenfe of touch is probably very imperfect in fithes, becaufe it refults from the contact and immediate application of the furface of fome object to that of the animal, and all parts of the body are not equally fit to be applied to the furface of foreign fubftances. The hand alone, which is divided into feveral Hexible and moveable parts, and is capable of being applied to different portions of the fame furface, at the fame time, feems peculiarly deffined to convey the ideas of fize and form, and even it would ill difcharge fuch an office, if its contact with objects flould be intercepted by any intermediate fubftance, as hair, feathers, fhells, fcales, \&c. A rough and hard $\mathfrak{k i n}$ blunts the femfe of touch, while a fine and delicate one renders it more lively and exquifite. Hence, we may prefume, that filhes, which are deftitute of palmated extremities, are incapable of recognizing the forms of bodies. Befides, as they are invefted with a rough fint, which is frequently covered with tubercles, or numberlefs fcales, they appear to be unfufceptible of that delicacy of fecling which nature has beflowed on many of the quadrupeds.

In the mowth of man, and of thofe animals which are endowed with lenfibility of faRe, there are numberlefs nervous papiliæ, large, porous, conflantly fupplied with an abundance of lymph, and corcred with a delicate fim, or inferted in fteaths of very unequal lengths. Thee favorous matiers are arrefled by thefe afperitics, diluted by the lymph, and abforbed by the pores, which convey them to the nerveus papiller, on
which they act asfimulants. The tongue is the prin- Phyfology cipal feat of this fyftem of organs, and is extremely fuf- and ceptible of imprefion, being compofed of flefty Ebres, Habitudes encompafied by a medullary tillue. In filhcs, however, $\underbrace{\text { of fithes. }}$ few pores have been difcovered in the interior region of the mouth, the lymph is conftantly carried off by the pafiage of the water, the tongue is fometimes imperfect and fometimes cartilaginous, and the palate is generally hard and bony. If to thefe circumftances we add the want of maftication, we may jully infer, that finhes are nearly deftitute of the difcriminating powers of talte. Accordingly, they are remarked for voracity, rather than for particular relifhes; and they will often fwallow fubftances which can afford them no nouriffsment.

The organ of fmelling, on the other hand, is large ; Smelling. and the animals have a power of contracting and dilating the entry to it as they have occafion. All have one or more noftrils; and even thofe which have not the holes perceptible without, yet have the proper formation of the bones for fmelling within. The olfactory nerves, which are extended over the noffrils, are probably the inftruments by which they are enabled to diftinguifh their food. A fifh will difcover a worm that is thrown into the water, at a confiderable diflance; and that this is not done by the eye, is manifeft from the confideration, that after the lame worm has remained for fome time in the water, and loft its fmell, no fithes will come near it ; but if you make feveral little incifions into it, fo as to let out more of the odoriferous effluvia, the creatures again approach it. "We may frequently obferve them, (fays the intelligent naturalif quoted above) allowing themlelves to be carried dorm with the ffream, that they may afcend again leifurely againft the current of the water; thus the odoriferous particles fwimming in that medium, being applied more forcibly to their organs of fmell, produce a ftronger fenfation."

## 3. Motion.

Moft finhes prefent us with the fame external form, Motions of being flarp at either end, and fwelling in the middle, fibes exwhercby they are enabled to traverfe their native fluid tremely reo with greater cafe and celerity. We wifely endeavour ${ }^{\text {pill }}$ to imitate this peculiar thape in the conftruction of velfels deligned to fail with the greateft fwiftnefs; yet, the progrefs of a machine moved forward in the water by human contrivance, is nothing to the rapidity of an animal formed to refide in that element. The large fiftes are known to overtake a mip in full fail with the greateft eale to play round it, without effort, and to outfrip it at pleafure. The flight of an arrow is not more rapid than the darting of a tunny, a falmon, or a gilt-head, through the water. It has been calculated that a falmon will glide over 86,400 feet in an hour, and 24 feet in a lecond, that it will advance more than a degree of the meridian of the earth in a-day, and make the tour of the world in the courfe of fome weeks. Every part of the body feems excrted in this difpatch; the fins, the tail, and the motion of the whole back-bone affif progreffion; and it is to that flexibility of body which mocks the cfforts of art, that fifhes owe their great velocity.

The chief inftruments in a filh's motion are its fins, Inftrume w air-bladiter, and tail. With at leall two pair, and three of motion.

Phyfiology fingle finc, it will migrate with great rapidity, and take $i^{\circ} \mathrm{d}$ Habirudes of Fihes. voyages of a thoufand leagues in a feafon, without indicating any rifible fymptoms of languor or fatigue. But it does not always happen, that fithes which have the greateft number of funs, have alfo the frifteft motion: the thark, for example, which is reckoned one of the fwiftell fiwimmers, wants the ventral fins; while the haddock, which has its full complement of fins, is more tardy in its progrefs.

The fins ferve not only to aflitt the animal in progrelion, but in riling or finking, in turniug, or even in leaping out of the water. To anfwer thefe purpoles, the pectoral fins, like oars, ferve to puft the animal forward, and have, therefore, not unaptly, been compared to the wings of a bird. By their help and continued motion, the flying-filh is fometimes feen to dart out of the water, and to fly above a hundred yards. The pectoral fins likewife ferve to balance the head, when it is too large for the body, and prevent it from tumbling prore to the bottom, as lyerpens to large-headed fiftes, when the pectoral tins are cut off. 'The ventral fins, which lie flat in the water, in whatever fituation the filh may be, ferve rather to raife or deprefs the body, than to affift its progreffive motion. The dorfal fin acts as a poifer, in preferving the animal's equilibrium, at the fame time that it aids the forward movement. The anal is defigned to maintain the vertical or upright polition of the body.

By means of the air-bladder, fifhes can increafe or diminilh the fpecific gravity of their body. When they contract it, or prefs out the included air, by means of the abdominal mufcles, the bulk of the body is diminithed, its weight in proportion to the water is increafed, and the fin fwims eafily at a great depth. On relaxing the operation of the abdominal mufcles, the fwimming-bladder again acquires its natural fize, the body increales in bulk, coniequently becomes lighter, and enables the filh to fwim eafily near the furface. So filhes which have no air-bladder, or thofe whofe bladder has been injured, keep always at the botton.

Laftly, the tail may be regarded as the diecting intlrument of motion, to which the fins are only fubfervient. To illuftrate all this by a fimple experiment -If we take a live carp, and put it into a large veffel, the fifh, when in a ftate of repofe, will be feen to fpread all its fins, and to reft on the pectoral and rentral near the bottom; and, if it fold up either of its pectoral fins, it will incline to the fide on which the folding takes place. When it defires to have a retrograde motion, ftriking with the pectoral fins, in a contrary dircction, effe itually produces it. If it defires to turn, a blow from the tail fends it about; but if the tail ftrike both ways, the motion is progreffive. If the dorfal and ventral fins be cut off, the fifh reels to the right and left, and endeavours to fupply its lofs by keeping the reft of its fins in conftant exercile. If the right pectoral fin be cut off, the fift leans to that fide; and, if the ventral fin on the fame fide be cut away, it lofes its equilibrium entirely. When the tail is removed, the filh lofes all motion, and abandons itfelf to the impulfe of the water.

The flimy glutinous matter which is fecreted from the pores of moft fifties, not only defends their bodies from the immediate contact of the furrounding fluid, but facilitates tbeir Rrogreffive motion.

The pelagian tribes of fifhes, which traverfe large Phyfilagy portions of the ocean, as the falnoon, tumny, and feveral fpecies of coryphona, gadus, fparus, fciana, \&e. are furnified with large and ftrong fins, to enable them to of Finhes, ftruggle againft large waves and rapid currents; whereas thofe which frequent the fhores and fref waters have their fins fmaller and weaker; while thofe with foft fins feldom expofe themfelves to the fury of the form, and confue themfelves to depths that are not affected by the moft impetuous winds. A more ample explanation of thefe particulars will be found in Borelli's work de Motu Animalium.

Notwithftanding the aftomifhing agility of their movements, fifhes often remain in a thate of inactivity and fupinenefs, till roufed by the calls of hunger or love, or Atimulated by the dread of an approaching enemy. The periodical and extenfive migrations of certain tribes of filfes are not irreconcileable with this remark, fince the want of food, or the important occupation of breed. ing, may induce them to clange their fation. But we cannot give implicit credit to the relations of thofe naturaliks, who, copying from one another, affect on this fubject the language of wonder and myltery. In re-Reputed gard to the reputed migrations of immenfe fhoals of migration herrings from the polar segions to the fouth of Europe, doubted. and which have been generally afcribed to the depredations of the cetaceous tribes, we may be allowed to alk, why thefe frall filhes proceed fome hundred leagues beyond the reach of their enemies, and why they return in winter to the very haunts of their gigantic deAroycrs? If it be alledged, that thefe mondrous animals drive them into bays and inlets; why do i.ey equally abound in the North fea and the Baltic, which are not frequented by whales? If mere want of food compels the herrings to detach their crowded colonies; how happens it that the migration always takes place at the fame time, and at the fame feafon of the year? It is difficult to conceive, that their fock of provifions hould regularly be exhaufted at the year"s end? Befides, if the arctic pole be the native country of the herrings, as has been ufually fuppofed, they fhould make their appearance, like birds of pallage, in nume.' rous troops at certain feafons, and very few or none fhould be feen during the reft of the year. Yet it is well known, that great quantities of them are caught in Norway, during the whole of fummer; in the fams country, and in Swedifh Pomerania, the fifhery is very productive from January to March; on the ceaft of Gothland, from October to December; in the north of Holland, in February, March, and April; and in Sweden, in the middle of winter. That part of the migrating ftoal regularly directs its courfe to the coaft of Iceland, is an affertion unfupportable by refpectable teftimony. Horrebow, who pafied fome years on that ifland, affirms, that a fingle herring will fometimes not be feen for many years; and Olaffsen, Egidius, OthoFabricius, and others, corroborate his affertions.

To account, then, for the movements of the herring, cod, tunny, anchovy, \&c. it is in vain to have secourfe to the rapacity of the whale, or to the urgent preffure of hunger; and leaft of all fhould we adopt the marvellous tales of periodical voyages, performed with the utmoft order and exactitude. M. Jloch explains in a much more fimple and natural manner the arrival and difappearance of the refpective thoals. According to him, herrings
hyfioogy herrings have the fanne propenfity as other fifhes, and and ufually live in the depths of the water, till ftimulated by the delire of reproducing their feccies. They then quit their retreat, and fuddenly appear in places where they were not formerly feen: and, as the frawning time occurs fometimes fooner, and fometimes later, according to the temperature of the water, and the age of the filles, we can eafily conceive why thofe fpecies which are reputed migratory, fhould be obferved at difierent times. Thofe fea fiftes which afcend rivers in fpring, only return to their feveral haunts in autumn. The herrings are, doubtlefs, guided by an analogous inninet; and if we may be allowed to fuppofe, that they formetimes fpawn more than once in the courfe of the year, we thall be at no lofs to account for the circumflances of their wandering.

## 4. Nokrifamint.

Among fifles, as amorig quadrupeds and birds, fome fearch for their food in the mud ; others live on worms, infects, or marine plants. The former lave their anterior extremity adapted to the extraction of peculiar juices from the earth; the latter have the conformation of their jaws or teeth fuited to the capture and Ton flives deftrultion of their appropriate prey. The greatelt
arnivorous number of fecies, however, are carnivorous and extremely voracious, fubfilting chietly on other filhes, and frequently not fparing even their own offspring. When taken out of the water, and almof cxpiring, they will ofien greedily fwallow the sery bait which lured them to their ruin. In the fequel, we flaall have occafion to adduce fome friking inftances of the violent and indifcriminate appetite of fereral fifhes. 'The digentive power of their fomach is no lefs remarkable, and feems to increafe with the quantity of food received into it. This food, though reduced to a gelatinous flate, ufually preferves its natural form; a circumillance which leads us to conclude, that the procefs of digeftion is performed by the folvent power of fome particular menftruum, and not by any trituration.

Fithes, in general, manifert a predilection for what ever they can fwallow poffelled of life. Some that have very fmall mouths, feed on worms and the fpawn of other finh : others, whofe mouths are larger, feek larger prey; it matters not of what kind, whether of another or their own. Thofe with the largeft mouths, purfue almoft every thing that has life; and ofter-meet eaclı other in fierce oppofition, and the victor devours his antagonift. Thus are they irritated by the continual defire of fatisfying their hunger; and the life of a finh, from the fmalleft to the greatelt, is but one fcene of hofility, viulence, and evafion. The fmaller fry, which fland no chance in the unequal combat, refort to thofe fhallows, where the greater are unable or too heavy to purfue. There they become invaders in turn, and live on the fpawn of large filles, which they find iluating on the furface of the water, till they are imprifoned and leifurcly devoured by the muffel, oyfter, or icallop, which lie in ambufh at the bottom.

Notwithflanding the aftonilling voracity of filhes, fome of them are capable of fuffering at leaft the apparcut want of food for a long time. This is particularly the cafe with the gold and filver fillees whichare kept in vafes, and which feem to enjoy perfect health, though deprived of futtenance for month:. But they may probably feed
on minute invifible infects, or be endorwed with the Phyrion-y power of decompofing water, and of converting its elements into the means of fubliftence. Much, in fact, Had, udes remains to be difcovered on the interefting fubjeet of the food of filles; for while the inceffant craving and yluttony of fome are obvious to the molt fuperficial obfervation, the methods by which others are maintained in exillence have only been furmifed by conjecture. Meanwhile, it is of importance to remark, that in the water, as on the land, rature has nicely adjufted the balance of de.truction and renovation, thus providently guarding againt an overwhelming accumulation of putrid carcafcs, and multiplying, at the fame time. the fuurces and centres of vitality and animal enjuyment.

## 5. Reproducion.

In moft, if not in all fifles, theie is a difference in fcx, though Bloch and others nake mention of individuals, which feemed to unite the two fexes, and to be real hermaphrodites. The number of males, it has bcen remarked, is about double that of females; and were it not for this wife provifion of nature, a large proportion of the extruded eggs would remain unfecundated. A few fpecies, indeed, as the cel, blenny, \&c. are riviparous; but by far the greater number are pro- Mof finles duced from egys. Thicfe land compofe the roe or ova- oviparoas. ries of the fenales, which l.e along the aldomen. The milt of the males is difpofed along the back-bone, in one or two bags, and confifts of a whitilh glandular fubftance, which fecretes the fipermatic tluid. Though the hiftory of the generation of fifhes be flill involved in confiderable obfcurity, it feems to be afcertained, that no fexual union takes place among the oviparous. kinds, atud that the eggs are fructified after exclufion. They are of a fpherical form, and confitt of a yolk, a white part, and a bright crefcent-like fpot, or germ. The yolk, which is ufually furrounded by the white, is round, and not placed in the middle, but towards one of the fides; and the clear fpot, or embryo, is fituated between the yolk and the white. In this fpot there is obfervable, on the day after fecundation, a moveable point, of a fomewhat dull appearance. On the third day, it aflumes the appearance of a thickith mafs, detached on one fide, and on the other flrongly adhering to the yolk, and prefenting the contour of the heart, which, at this period, reccives an increafe of motion, while the difengaged extremity, which forms the rudiments of the tail, is perceived to move at intervals. On the fourth day, the pulfations of the heart and the movements of the whole body occur in quicker fucceflion. On the fifth, the circulation of the humours in the veffels may be diferned, when the filh is in a particular pofition. On the lixth, the back-bone may be difinctly recognifed. On the feventh, two black points, which are the eyes, and the whole form of the animal, are vifible to the mahed cye. Althougls the yolk gradually diminiftes as the embryo enlarges, the iucluded animal camot yct flrctch itfelf at length, and makes a curve with its tail. Its motions are then fo brik, that when it turns its body, the yolk turns with it ; and thefe motions brcome more and more frequent, as the moment of birth, which happens between the feventh and nintl day, approaches. By repeated ftrokes of the tail, the covcring of the egg at

Ihysolcay lengtin gives way, aid the fin comes forth, firft by the and tail, redoubling its efforts, till it detach its head; and Irabituries then it moves nimbly, and at liberty, in its new clement. Such, at leaft, are the refults of fome particular obfervations : but it is obvious, that they muft vary confiderably according to circumftances; particularly, that the fpawn mult continue in the egg fate in fome fpecies longer than in others, and this in proportion to the animal's fize. The embryo falmon, for inftance, continues in the egg from the beginning of December to the beginning of April, and the carp not above three weeks.

Fifhes have different feafons for depoliting their \{pawn. Some which live in the depths of the ocean, are faid to choofe the winter months; but, in general, thofe with which we are acquainted, choofe the hotteft months in fummer, and prefer fuch water as is fomewhat tepinied by the beams of the fun. They then leave the deepeft parts of the ocean, which are the coldeft, and fhoal round the coafts, or fwim up the frefh-water rivers, which are warm as they are comparatively fhallow, depofiting their eggs where the fun's influence can moll cafily reach them, and feeming to take no farther charge of their future progeny.

Of the eggs thus depofited fearcely one in a hundred brings forth an animal, as they are devoured by all the lefer fry which frequent the fhores, by aquatic birds near the margin, and by the larger fin in deep water. Still, horever, the fea is amply fupplied with inhabitasts; and, notwithftarding their own rapacity, and that of varicus tribes of fowls, the numbers that efcape are fufficient to relieve the wants of a confiderable portion of mankind. Indeed, when we confider the fecundity of a fingle fifh, the amount will feem aftonifhNumber of ing. If we fhould be told, for example, that a fingle eggsim- being could in one feafon, produce as many of its kind
fifhes. Perhaps they are larvx, or imperfect animals, $P$ whofe developement is fill obfcure ; yet it is not improbable that fome fifhes may undergo transformations analogons to thofe of young frogs and falamanders. The hiltory of the oftracion and diodon families will warrant fuch a fuppofition; and the firen lacersina of Linnæus feems to be alike connected with reptiles and fifhes.

For feveral curious and interefting experiments relative to the artificial fecundation of the fawn of fifhes, we muft refer our readers to M. Jacobi's Mlemoir, in ferted in the Berlin Tranfactions for 1764. By pref. fing the contents of the milt of falmon and trout on the fparsn of thefe fifhes, he fucceeded in readering the ova fruitful, and obtained live filh. Among thefe trere feveral monfters, fuch as trouts with iwo heads, others in the form of a crols, \&c. none of which lived beyond fix weeks, exhaufting in that time the juices of their own fomach, and the yolk of the egg to which they were attached.

## 6. Duration.

It is extremely difficult to afcertain the precife term which nature has affigned to the exiftence of thofe creatures which inhabit a medium different from our own. It is probable, that the life of filhes which efcape the numerous finares that are laid for them, is confiderably longer than their mare fize would feem to indicate. In the firft Alages of their exiffence, their growth is, no doubt, rapid; but their fibres quickly become hard, and lefs fufccptible of extenfion. When newly excluded from its egg, the fith grows four lines in the fhort fpace of eight hours ; but three weeks at leaft elapfe, before it acquire an additional line. Nor is the rate of growth at all equal in different fpecies. Thus a carp attains only to the length of fix or feven inches in three years, and to the weight of twelve pounds in ten years. The growth of the tench is fill more tardy, fince twelve years are required to give it the length of twenty inches.

There have been two methods devifed for determining the age of fifhes, the one, by the circles of the fcales, the other, by the tranfiverfe fection of the backbone. When a fin's fcale is examined through a microfcope, it will be found to confift of a number of circles, one within another, in fome meafure refembling thofe which appear on the tranfverfe fection of a tree, and which are fuppofed to afford the fame information. For, as in trees, we can tell their age by the number of their circles, fo in fihes, we can tell theirs by the number of circles in every fcale, reckoning one ring for every year of the animal's exiltence. By this method, the count de Buffon found a carp, whofe fcales he examined, to be not lefs than a hundred years old. Gefner adduces an inftance of one of the fame age, and Albertus of one more than double that period.-The age of the fiate and the ray, which are deflitute of fcales, may be known by the other method, which confifts in feparating the joints of the back-bone, and then minutely obferving the number of rings which the furface where it was joined exhibits. But whatever degree Great age of precifion we may attach to fuch evidence, we have o rome no reafon to doubt the great age of fome fithes. Tholefinien. perfons who have ponds offer know the oldeft by their fuperior fize, and cther indication:. Tlee carg which
were bred in the ditches of Pont-Chartrain, are quoted by Buffon, as excceding a hundred and fify years; and thofe in the royal gardens of Charlottenburg, in Prulia, are faid by Bloch to have their heads overgrown with mofs. Ledelius alleges, that in fome pools in Lufatia there are carp about 200 years old. At Manheim, there is the Releton of a pike, 19 feet in length, and which is faid to have weighed, when alive, 350 pounds. It was caught at Kayferlautern, in 1497; and a Greek infcription on a brafs ring, inferted at the gills, announced that it had been put into the pond by the emperor Frederick II. that is to fay, 267 years before it was taken. Some fpecies, however, are known to have a much fhorter exiftence; thus, the eel ufually lives about 15 years; the bream and the tench, from 10 to 12 , and the fifteen-fpined flickle-back feldom furvives two.-The comparative fimplicity of their ftructure, the flexibility of their frame, the frength of their digeftive powcr, their want of fenfibility, and the equal
temperature of the elcnent which they inhabit, protably all contribute to the longevity of fifhes. The fame caufes may, perhaps, exemft them from many difeales which are incident to other races of animals. Yet we know for certain, that they are occafionally fubject to indifpofition and diftempers. Before the fawning feafon, they undergo a change of their external covering, analogons to moulting amongtt the feathered tribes; their fcales and thins are renewed, and the colours of the more beautiful kinds allume more frelh and vivid hues. But this annual change is not effected without evident fymptoms of languor, decline, and fuffering. Some kinds of falmon trout are liable to a leprous affection, the carp to fmallpox, and the eruption of fmall tumours oin the head and back, the perch to dreply, eels to a cutaneous diforder which often proves fatal, and moolt fpecies to ulcerated livers, or injured vifcera, from the worms and infects of various defcriptions which ausltiply within them.

## CHAP. IV. SYSTEMATIC EXPOSITION OF FISHES.

THE Linnæan orders of fifhes have been inflituted from the fituation, prefence, or abfence of the ventral fins.

1. Such as are entirely defitute of thefe fins, are termed pices apodes, apodal or footlefs filhes.
2. The jugulares, or jugular, are thofe which have ventral fins, placed more forward than the pectoral fins, or under the throat.
3. The thoracici, or thoracic, include thofe whofe ventral fins are placed immediately under the peetoral fins, o: on the breaft.
4. The abdominales, or abdominal, comprife thofe whofe ventral fins are fituated behind the pectoral fins, or on the abdomen.
5. There fill remains a particular tribe, denominated cartiloginei, which, as their name imports, have a cartilaginous inftead of a bony fleleton. This tribe was by Limmus feparated from the reft, on the mitaken idea, that the individuals which compofe it were furnifhed both with lungs and gills, and frould be ranked in the clafs of amplibious animals.

The genera which pertain to the preceding orders are determined by the number of rays in the branchioliegour membrane, the condition of the teeth, the figure of the body, and of other remarkable parts.

The characters of the fpecies are taken chiefly from the number of rays in the fins, which differs in the different fpecies. But, as the precife enumeataion of thafe rays is fometimes a matter of difficulty, and, as they are likewife fubject to variation, it is neceflary to have recourfe to other marks, and to adopt, as fublidiary characters, the form ard fituation of particular nins, the proportion of the head to the body, the condition of the lateral line, the number of the vertcbre and sibs, \&c.

## I. APODAL.

The filics of this order approach very near to the amphibia, and fome of them even refemble the ferpent tribe. They have a fmooth lippery din, which is, in
general, naked, or covered in fome fpecies only, with fmali, foft, and diftant fcales. Their body is long and flender; they have teeth in the jaws, and live in the fea; but fome are found in rivers and flanding waters. They feed on other auimals.

## Genus i. Murexa.

Head fmooth; noftrils tubular ; eyes covered by the comnoon integument; gill membrane ten-rayed; body nearly cylindrical, fmooth, and nippery; dorfal, caudal, and anal fins united; fpiracles behind the head or pectoral fins.
Roman murcena, or murey. No pectoral fins; body lelenas. eel-thaped, and variegated; (piracle on each fide the neck.-The colour of this filh is a dulky-greeniih brown, diverfified with dull yellow patches, and forming a kind of obfcure net-work. The head is rather finail ; the mouth moderately wide, and the teeth תlarp: The fins are of a duky colour, with whitih fpots. The murey is capable of living with equal facility in freft or fait water, though principally found in the latter, efpecially on the coafts of the Mediterranean. It attains to a fize at leaft equal, if not fuperior to the common eel, which it much refembles in its manners and voracity. The Romans prized it as an exquifte luxury, and kept it in appropriate refervoirs.

Sinake cel, or fea ferpent. Snout lengthened; tailophis.. pointed, and finlefs; body round. The head of this fpecies is long and flender, the gape very wide, the teeth very tharp, and the colour a very pale yellowifh brown above, and bluilh white beneath. It is a native of the Mediterranean and northern Seas, where it often arrives at a very confiderable fize, and has probably given rife to the inarvellous tales of huge fea ferpents in the northern ocean.-The anvuilla ophis, or fpotted eel of Shav, feems to be a diflinct fpecies, or elfe a marked variety, being fpotted with brown, and chiefly found in the Indian feas, though fometimes alfo in the Mediterranean, \&c.

Common ee!,-The lower jaw longer than the up-anguith.

A podal per; body olive-brown above, fomewhat filvery beneath.
Fithes. The fogure and appearance of this fpecies are too well
knoma to require a particular defoription. It is an tive of almoll all the waters of the ancient continent, frequenting not only rivers but fagnant pools, and occafionally lalt marthes and lakec. In fpring it is found even in the Baltic and other leas. In fome places near the mouths of the I3altic, they are taken in fuch abuudance that they cannot be ufed frelh, but are fnoked and falted, and conseyed by waggon-loads into Savony, Silelia, \&z. We are told that 2000 have been taken in Jutland at a fingle fweep of the net, and 60,000 in the Garorine in one day, by a fingle net. It is generally alleged that the eel cannot bear the water of tise Danube; and it is rarely found either in that river or the Wolga, though very common in the lakes and risers of Upper Auftria. Its ordinary fize is from two to three feet, though it has been known to attain to the length of fix feet, and to weigh fifteen pounds. Dale and others mention fome of uncommon magnitude, but which were probably congers. 'Though impatient of heat and cold, the eel can live longer out of the water than any other fith, and is extremely tenacious of life, as its parts will move a conliderable time after it has been fkimned , and cut into pieces. It fometimes quits the water, and wanders about meadows and moift grounds in quelt of particular food, as fnails, worms, \&ic. It is allo faid to be fond of newfown peas, and to have fometimes taken refuge from fevere fioits in adjoining hay-ricks. Its ufual food conGils of water-infects, worms, and the fpawn of fithes. It will alfo devour almofl any decayed animal fubftance. It is viviparous, producing its young ahont the end of fummer ; though both eggs, and ready-formed young are occalionally obferved in the fame individual. It dkin, which is proverbially flippery, from the large proportion of mucus with which it is furnifhed, ferves, in fome countries, from its toughnefs and pellucidity, as tackle for carriages, \&ic. and glafs for windows. Though we learn from Athenæus, that the Sybarites exempted from every kind of tribute the venders of ecls, the Romans feem to have held this filh very cheap as an article of food. In modern times it is reckoned lighly nutritious, though fomewhat diffcult of digellion, and hurtful when taken to excefs.

Cionger eel. -Two tertacula at the roftrum, the lateral line whitih and dotted. The firlt of thefe characters is not conflant. But the conger may be difinguilhed from the common eel by other marks, fuch as its darker colour, larger eyes, jts fhorter lower jaw, and the greater fize to which it ufually attains. Specimens from the Mediterranean have fometimes been taken of the length of ten feet, and of the weight of mere than a hundred pounds. It is likewife an inhabitant of the northem feas, and of thofe which furround lome of the American illands. "The conger is only an occafional vifitant of frefl water, frequenting the mouths of rivers in lpring. In the mouth of the Severn incredible quantities of the fry are taken in April, under the name of eherers. In its full-grown fate the conger is alfo reckoned a ufeful article of food in many parts of Europe. The great quantities that are taken on the coaft of Cornwall are clicfly exported to Spain and Portugal. Much of their abundant oil is drained away in the rrocefs of drying, the weight being re-
duced nearly eighty per cent. Congers are extremely voracious, preying on other bihes, and on various kinds of crultacea, particularly on the lmall crabs during their foft ftate after they have cait their ihell.

Souttern murena.-No pectoral fins; brown, with echidna. black varieyations; deprefted head and very turgid neck. This fpecies, which inhabits the fouthern ocean, has a repulive appearance. grows to a very confiderable fize, and alfords excellent iood.

The firen. - Pectoral fins like hands with four firen. fingers, gill membrane with three pinnatifid bones. This is the Jires lacertira of former editions of the Syltem of Nature. It is peculiar to the muddy fwamps of South Carolina, preys on ferpents, which it feizes and holds with its ftrong and firm teeth. It is fometimes a foot and a half in length; its heart has but one ventricle; it has ribs and a bony tail ; and is fo frasile, that if calt on the ground it breaks into three or four pieces.

The other Species are, colubrina, ferpens, myrus, guttata, coeca, catenata, retic:luta, africana, zebra, meleagric, and wiridis.

Gen. 2. Symbranchus.
Synbrano chus.
Body cel-thaped; no pectoral fins; firacle fingle beneath the neck.

Marbled fynbranchus.-Olive-brown, marbled with blackilh fpots; the body yellow bemeath. Native of $t$ us. the freih waters of Surinam.

Plain fynbranchus.- Of a plain unvariegated brown inmacula colour. A native of Surinam.
tus.

## Gen. 3. Monopterus.

Monopterus.
Body eel-fhaped; noftrils placed between the eyes; fin cadal.

Favan monopterus.-Livid brown or blackith, with jazanicus a very tharp-pointed tail. This fifh, which has the appearance and habits of a muræna, is a native of the Indian feas, and very conmon about the coafts of Java, where it is conidered as an excellent food.

## Gen. 4. Gymnotus.

Head with lateral opercula; two beards or tentacula on the upper lip; eyes covered by the common integument; gill membrane five-rayed; body compreffed, without dorfa! fin (in molt fpecies), but carinated by a fin beneath.

Carapo gymnotus. - Brown, with the vent-fin of the carapo. length of the attenuated tail, and the upper jaw longer than the lower. This finh is a native of the American feas, and is faid to be moll frequent about the coaft of Surinam. Its ordinary length is from one to two feet. It is reckoned excellent by the South Americans.

Electrical gymnotus, or cramp-fifh.- Without \{cales or dorfal fin ; the caudal very obtufe, and joined to the anal fin. This filh bears a confiderable refemblance to a large eel, though fomewhat thicker, and commonly of an uniform blackilh-brown. It was firlt announced to the philofophers of Europe on account of its remarkablc elcelrical or galvanic properties, in 1677, by M. Richer, who was commiffioned by the Freuch Acade. my to make fome mathematical obfervations in Cay-
ap dal eme. It would betedius to recite all the remarks and thbes. experiments of fucceeding obfervers, which confpire to prove the vol intary electricity of the gymmotus, which, however, occafonally exhibits fome sariations from the henomena of conmon electricity. If a perfon touches the animal with one hand, in luch a manner as to irritate it confurerably, while the other is held at a frall dillance from it in the water, he will experience as ttrong a thoc! as from a charged Leyden phial. The thock is allo readily communicated througls a circle of "ingle or ten perfons at once, the perfon at one extremity putting his inand in the water near the filh, while tie other touches the anmal. It is by this extraordinary faculty that the gymmotus fupports its exiftence, the fmaller filses and other animals which happen to approach it being inftantly ftupified, and then falling. an eafy prey. It is even capable of depriving thofe s ho approach it it its native waters, of fenfe and motion. It is a native of the warmer regions of $A$ frica and Ame-ica, in which latt it inhabits the larger rivers, Farticu'ariv thore of Surimam. In Africa, it is faid to occur chiety in the branches of the Senegal. In the $65^{\text {th }}$ volume of the Plailofophical Tranfactions, our readers sill fud an acct:rate defcription of the external form of the electrical gymnotuc, by the late ingenious I) Garden, and one equally accurate of its internal Aructare by the celebrated Mr John Hunter.

Deccióc s.ypmontus. Naked, with finlefs tail and belly, the ana! fin oif fixty rays, terminating before it reaches the tip of the tail, The only European fpecies yet difcorered, being a native of the Mediterranean, and defcrised by Brumich in his hiftory of the fifh of Marteille.

To the fame genus belong fofciarus, albus, albifrons, rofloatus, nolopteras, and aficticus.

## Gen. 5. Trichiurvs.

Head fretched forwards, with lateral gill covers; teeth enfiform, femi-fagittated at the points, the fore teeth the largelt; gill-membrane feven-rayed; body comprefied and enfform, with a fubulate and finlefs tail.

Silvery trichiurus, or gymnngafier. - The lower jaw longer than the upper. This filh is dillinguihed by the fingularity of its !hape, and the filver brilliancy of iss colour. It is from two to three feet long, very voracious, and a rapid frimmer. In the purfuit of its prey, it fometimes leaps into fmall vefiels which happen to be failing by. It frequents the rivers and larger lakes of South America, and is alfo laid to occur in fome parts of India and China.

Indian or elecfrical trichinrus.- Jaws of equal length. Inhabits the Indian leas, and is faid to poffers a degree of electrical power.

## Gen. 6. Anarchicas.

Head fomewhat obtule; fore teeth both above and below, conical, diverging, ftrong; iix or more grinders in the under jaw, and palate rounded; gillmembrane fix-rayed, body roundin, candal fin dif. tinct.

Wilf fish, fen wolf, or ravenus wolf filb.-Of a blackifi gray colour, the fides, anal and candal tins, and abdomen lighter. This is one of the few fillies

VoL. XI. Part I.
which have fore teeth and grinders. Of three fpecimens examined by Dr Black, one had fix ro:s of grinders in the upper jaw, and as many in the lower; another had fix rows abore, and four below; and a third had five above, and three below. The dipolition and flructure of all the teeth are excellens adapted for breaking and comminuting the ciabs, lubiters, fcallops, large whelks, \&ic. which this voracious amimal grinds to picces, and fwallows with the fhells. Wh en caught, it faltens on any thing within its reach. Schonfelde relates, that it will feize on an anchor and leave the marks of its teeth behind; and we are informed by Steller, that one which he faw taken on the coalt of Kamttchatka, feized with great volence a cutlafs with which it was attempted to be kilier, and broke it in pieces as if it had been made of gl:fs. The fifmermen, dreading its bite, endeavour as bon as politble to beat. out its fore teeth, and then kil it by foiking it on the head. Its llat and grinding teeth are oiten found i:a a follil Itate, and known by the name of bufonites, or toad-fones, to whichmany fuperititious virues were formerly afcribed. The fea wolf grows to a very confiderable fize, being frequently four, and fometimes even leven feet in length. It has fmall fales and a lateral line, though defcribed by mott naturalitts as deftitute of boih. It commonly frequents the deep parts of the fea, in the northern regions of the globe. and fome parts of the Britill coafts, approaching the Jhores in fpring, to depofit its fawir anong the marine plant: It fwims llowly, and with the ferpentine motion of the eel. Owing to its forbidding appearance, it is not generally brought to market; but the filhermen, the Greenlanders, and the Scotch find it excellest food. The latter call it the fer cat, and take off the head and fkin before drefling it. The frigofus is now generally admitted to be only a variety of the preceding.

Smaller walf filh.-With very tharp cartilaginous minor. teeth. Inhabits the coatt of Greenland.

Panther wolf fflh.-Yellow, or fulvous, fpotted with pantheribrown. In other particulars it agrees with the com-nus. mon fpecies. Native of the northern feas.

## Gen. 7. Odontognathus.

Odontogna-
Mouth furnithed with a ftrong moveable lamina or thus. procefs on each fide of the upper jaw; gill-membrane five-rayed.
Aculeated odontognathus.-Abdomen aculeated. Na-aculeatus. tive of the American feas, and common about the coafts of Cayenne, where it ranks among the edible filhes.

Gen. S. Triurus.
Triurus.
Snout cylindrical ; one tooth in each jaw ; dorfal and anal fin extended beyond the tail.

Commerfonian triplc-tail-The branchial orifice clofed at pleafure by a value. In general appearance and comio fize it relembles a herring. It is diltinguifined from the forii. whole clafs of fifhes by the circumilance noted in the fpecific character. Native of the Indian feas.

Gen. 9. Anmodytes.
Ammo.
Head compreffed, narrower than the body; upper lip dyres. doubled, the lower jaw narrow, and pointed; teeth L.
fmall

Ap:dal Fithes.
fismil and fimp; gill-nembranc feren-rayed; body long, roundih, with very fmall Ccales; tail dillinct. cobianies. Sianl launce, or fund ec'.-The lower jaw longer than the upper. A native of the northern parts of Europe, commonly frequenting the coals, and lying imbedued in the fand, in the fummer months, at the depth of talf a foot, or a fuot, with its body rolied into a firal form. In this fitwation it is taken at the recefs of the tide, either for bait, by the nifhermen, or as an article of food, being regarded as a delicacy: It lives on worms and finall fifhes, not even excepting its own fpecies; and it is itlelf preycd on by the porpoife, and larger fithes; particularly by the mackerel. Noit of the older ichthyologith have erroncoully reprefented it as deflitute of fales, and Klein has improperly divided it into tiro fipecies.

Ophidium.

## Gen. ic. Ophiduy.

Head fomerrhat raked ; teeth in the jarrs, palate, and fauces; gill-membrane feven-raved, patulous; body fword-fhaped.
barbaidm. Bearded ophidum.-Four cirrhi on the lower jaw. This fpecies, which is frequent in the Mediterranean and Red feas, grows to ter or twelve inches long, is of a likery hue, with a thade of pink, and marked with irregular linear fpots; its ikin is covered with foft oblong fcales, adherins at their anterior edge. According to Belon, the Romans frized its flem, which is white, but rather coarle.

Bearrlefs ophidium.-Jaws beardlefs; tail rather obtufe; in other refpects, much allied to the former. Inhabits the Mediterrarean, and has alforbeen taken near Weymouth.

Viride, aculcatum, and maflacembalus, the other foecies, are but imperfectly known.

Stromatcis.

## Gen. AI. Stromateus.

Head comp-cifed ; tecth in the jaws and palate; body oval, broad, and flippery; tail bifid.
farola.
Striped fircmateus.- Marked with tranfverfe undulated bands. This fpecies, which is beautifulls variegated, inhabits the Nediterranean and Red fea, and is known to the modern Romans by its fpecific appellaticn.

Paru frometeus.-Gold-coloured back, and filvery abdomen. Gereral lize, that of a turbot. Nuch efteemed as a food. Native of South America and Tranquebar. The cungra of Gmelin's Linnaus feems to be only a varicty of this.
cinereus.
Alb-coloured firomatius.-Tail forked, the lower lobe longer than the upper. Native of the Indian leas, and ferved at table, as a dainty, under the name of pampel.
orgeriteres. Silver firomateus. - With the lobes of the tail equal. Nearly allied to the preceding, a native of the fome feas, and equally efleemed as an article of food.
niger. This alfo firequents the Indian feas; but is feldom prepared for the iable, on account of its colour and the circumflance of its feeding on wood lice, whish are fometimes found in its mouth.

Gen. 12. Xirhias.
Head with the upper jaw terminating in a frord-fhaped fncut; mouth without teeth; gill membrane eightrayed; body roundilh, and fcalele?s.
Common or Sicilion fuord-ffle. - The dorfal fin at-gladius. tenuated at the hind part. The body of thic fword-fing is long, round, and gradually tapers towards the tail; the head is flatifl, and the mouth wide, both jaws terminating in a point, but the upper firctched to a great diftance beyond the lower, forming what is commonly called the fword, by which it pierces and hills the fmailer kinds of filhes. It fometimes meafures twenty feet in length, and is of an active and ravenous difpofition. The method of taking it, defcribed by Strabo, exactly agrees with the modern practice. A man afcends one of the cliffs that overhang the fea, and as foon as he fpies the fith, gives notice by voice or fignal of the courfe it takes. Another perfon in a boat climbs up the malt, and on fecing the filh, directs the rowers to it. The moment that he thinks they have got within reach, he defcends and taking his feear in his hand, ftrikes into the fin, which, after wearying itfelf with its agitations, is feized and dragged into the boat. Its flefh is much efteemed by the Sicilians, who cut it in pieces and falt it. The pieces from the belly and tail are moft efleemed, and the falted fins are fold un. der the name of callo. The fword-tith is frequently found in the Mediterramean, efpecially on the coatts of Sicily, where the male and female ufually appear in pairs. It alfo occafionally occurs in the northern feas, and fometimes in the Pacific ocean; but Alian erroneoufly afferts that it is at the fame time a frefly water finh, and an inlabitant of the Danube.

Broad-finned froord-fif).-Dittinguifhed from the pre-playpleceding by a very broad back fin, and very long fharp-rus. pointed thoracic appendages. Found not only in the Brafilian and Eaft Indian feas, but alfo in the Northern ocean. It is faid to have frequent combats with whales. The bottom of an Eaft Indiaman was pierced by a filı of this fpecies, in fuch a manner, that the fword was driven through almon to its bafe, and the animal killed by the violence of the effort. The wood, together with the fword imbedded in it, is now in the Eritifn Mufeum. When this fecies does not exceed four feet, it is confidered as an eatable fifh; but it is found of the length of twenty feet, and forctimes even much longer.

Slicrs fnouted fword.filu.-Elackill; with fnout ofmakaira. middling length, and two bony tubercles on each fide of the tail. Refembles the common fword-fifin, except that the frout is much forter and thicker.

## Gen. 13. Sternoftys.

Head obtufe; mouth taming up; teeth very fmall; no gill-membrane; body comprefled, without vifible fcales; breaft carimated, and folded both ways; abdomen pellucid.
Tranparent fiernoptyx.-Silvery; with carmated diapliane breafl, and pellucid abdomen; two or three inches long, broad, and compreffed, the back rifing into a fharp edge, and the abdomen terminating in a carina. Native of the American feas.

Gen. I f.

## Gen. Iq. Lettocephales.

Head narrow; body very thin, and comprefled ; no pettoral fins.
Morris launce, or Arglefca morris.- Firt difcovered on the coaft of Angleíe by Mr Morris, and defribed by Pennant under his name. Fout inches in length; the head very fmall; the body extremely thin, and almoft tranfparent.

## Gen. 15. Stylephorus.

Eyes pedunculated, flanding on a fhort thick cylinder; fnout lengthened, directed upwarch, retratile toward, the head by means of a membrane; mouth without teeth; gills three pair beneath the throat; pe?oral fins fmall; dorfal, the length of the back; caudal, thort, with finy rays; body very long, comprefied.
borda:us. Chordated Aylephorus.-Silvery; with an extremely lang caudal thread. We fhall here tranfcribe Dr Shaw's defription of this very extraordinary fpecies.
" The roftrum or narrow part which is terminated by the mouth, is connected to the back part of the head by a flexible leathery duplicature, which permits it to be either extended in fuch a manner that the mouth points direaly upwards, or to fall back, fo as to be received into a fort of cafe formed by the upper part of the head. On the top of the head are placed the eyes, which are of a form very nearly approaching to thofe of the genus cancer, except that the columns or parts on which each eye is placed, are much broader or thicker than in that genus ; they are alfo placed clofe to each other, and the outward furface of the eyes when amagnified, does not thow the leaft appearance of a reticulated flructure. The colour of the eyes, as well as of the columns on which they fland, is a clear chefnut brown, with a fort of coppery glofs. Below the head, on each fide, is a confidetable compreffed femicircular Space, the fore part of which is bounded by the covering of the gills, which covering feems to confift of a fingle membrane, of a moderately itrong nature. Beneath this, on each fide, are three fmall pair of branchise. The boty is extremely long, and comprefled very much, and gradually diminifhes as it approaches the tail, which terminates in a ftring or procefs of an enormous length, and finifles in a very fine point. This ftring, or caulal procefs, feems to be flrengthened throughout its whole length, or at leat as far as the eye can trace it, by a fort of double fibre or internal part. The pectoral fins are very fimall, and fituated almof immediately betind the cavity on each fide the thorax. The dofa! fin, which is of a thin and foft nature, runs from the head to within about an inch of the tail, when it feems fuddenly to terminate, and a bare fpace is left of about a quarter of an inch. I am, however, not altogether without my doubts whether it might not, in the living animal, bave run on quite to the tail, and whether the foecimen might not have received fume injury in that part. From this place commences a !ruatler fin which conflitutes patt of the caudal ппе. The cautal fin itfelf is furnitied with five rematlable frines, the rents or orizinations of which may be traced to fume depatis is the thin part of the tail.

The gencral colour of this finh is a rich flver, except on the flesible part belonging to the roftrum, which is of a deep brown; the fins and caudal procefs are alfo brown, but not fo deep as the part juft mentioned. There is no appearance of fcales on this fifh. From the very fingular figure and fituation of the eyes, I have given it the generic name of Aylephorus, and as the trivial name cannot be t.then from any circumftance more properly than from the extraordinary thread-like procefs of the tail, I have applied to it the title of chordatus. It is a native of the Weft Indian feas, and was taken between Cuba and Martinico, near a fma!! clutter of little illands about nine leagues from fhore, where it was obferved near the furface. The whole length of this uncommon animal, from the head to the extremity of the candal procefs, is about 32 inches, of which the procels itfelf meafures 22. "

## II. JUGULAR.

The fifhes of this odder have their ventral fins fituated before the pectoral fins, and, as it were, under the throat. They are noflly inhabitants of the fea. Their body is fometimes covered $\begin{aligned} & \text { vith feales, and fometimes }\end{aligned}$ not. With a very few exceptions, they have fines in the dorfal and anal fins; and their gills have bony rays.

## Gen. I. Califonymus.

The upper lip doubled; eves pear each other: the gill-membrane fix-rayed; two breathing apertures in the hind part of the head; opercula clole; body fcalelefs; ventral fins very difant.
Gemmeous dragonet.-The frit ray of the firf dorfallyra. fin as long as the body. In this beautiful fecies, the pupils of the eyes are of a rich fapphire, the irides of a fine flame colour; the pectoral fins light brown, and the body yellow, blue, and white. "The blue," fays Mr Pennant, "is of an inexprelible fplendour; the richeft coerulean, glowing with a gemmeous brilliancy; the thront biack." Dr Tyfon has defcribed it, in the 24 th volume of the Philofophical Tranfactions, under the improper appellation of the yellow giurnard. It grows to the length of 10 or 12 inches; the body is flender, round, and finooth; and the membranes of all the fins extremely thin and delicate. It is found as far north as Norway and Spitzbergen, and as far fouth as the Mediterranean, and is not unfrequent on the Scartorough coatts, where it is taken by the hook, in 30 or $\mathfrak{i}$ fathoms water. It is often found in the flomach of the cod filh. Its fielh is white, and well flavoured. Rondelet compares it to that of the gudzeon. Pontoppidan, who never faw it, afferts, with his ufual credulity, that it can fly in the air to the difance of fcveral mulket fhot.

Sordid dirgoonet.-The rays of the firn dorfal findracuncitflorter than the body. In mof other relpects, it agreesius. with the preceding.

This genus likewife comprifes indicus, baikalenfs, orellate:s, fagitta, and japonicus.

## Gen. 2. Urinoscopus.

Head deprefied ; rough and large, mouth turned up; the upper jaw fhortell; gill-membrate papillarv and

Tuyular
Fifies.
faber.
japonicus.
dentated; with fix rays, gill-covers membranaceous and ciliated ; anus in the middle of the body.
Bearded Rar-gazer,-Back fimooth; wfual length about 12 inches. The head is large, fquarifh, and co. yered with a bony cafe. The mouth is wide, and opens in an almof vertical direalion. The cyes are fituated very near each other on the top $n$ t the head. A long cirrlus or beard extends beyois the lips, which are themfelves edged with fmaller ones; frequenting thatlows near the thores; it lies concealed in the mud, expofing only the tip of the head, and waving its beards in various directions, and thus decoying the fnailer fithes and marine infects, which miftake thefe organs for worms. It is faid to fleep during the day. Is found chiefly in the Mediterranean. Its fleht is white, but tougli, coarfe, and meagre.
Yapanefe far-gazer.- Back rough, with a feries of fpinous fales. Body roundilh; yellow above; white undermeath. Native of the coafts of Amboyna.

Trachinus.

## Gen. 3. Trachinus.

Head nightly rough, comprefifed ; gill-membrane fixrayed; inferior plate of the gill-covers fertated; vent near the breaft.

- draco.

Dragon weever. Somewhat filvery hue, with tranfverfe yellowith Areaks; the firft dorfal firs black, and and five-rayed : of a lengthened flape, much compreffed, and covered with frall deciduous fcales. The mouth and eyes, in refpect of pofition, refemble thofe of the far-gazer. The ufual length of this fifh is from 10 to 12 inches. It frequently imbeds itfelf in the fand, and if troddeis on, endeavours to wound the aggreflor with the fpines of its firf dorfal fin. The punctures are very troublefome and painful, though it does not appear that the fpines contain any poifonous matter. It feeds principally on marine infects, worms, and frall fithes, and is very tenacious of life, being capable of exitting many hours out of the water. From this circumflance the French call it aive and viver, which we have corrupted into weever. It frequents not ouly the Mediterrancan, but the northern feas, and is found abundantiy on the coalls of Holland and Eat Friezeland. Its tlelh is well flavoured, ealy of digeftion, and highly efleemed by the Dutch. The greater weever, defrribed by Pennant, hardly deferves to be confidered as a ditinct fpecies.
ofbeckiz.
Oblechian zeever. White, fpotted with black; both jaws of equal length. Native of the Atlantic; found about the ine of Afcenfion, \&c. and defcribed by Ofbeck in his voyage to China.

Gadus.

## 4. Gades.

Head finooth; gill-membrane with feven round rays; body oblong, with deciduous fcales; fins covered with a common ikin; more dorfal and anal fins than one; the rays not prickly; the pectoral fins attenuated to a point.

> * With birree dorjal fine, cirrhi at the mouth.
celcfinus. Haddock. Whitith; the tail bilobated, the upper jaw the longeft. Another diftinguifhing character may be deduced from the large black fpet on earh gide
above the pectoral fins. Superftition affigns this mark Jugular to the impreffion which St Peter left with his finger Finkes. and thumb, when he took the tribute ont of the mouth of a fifh of this feecies, and which has been continued to the whole race. The hadiock is ufually of a moderate fize, meafuring about 18 inches or two feet in length, and the beft for the table weighing from two to four pounds. It is found in the northern feas in prodigious flioals, vifiting particular coafts at fated feafons, and for the molt part attended by immenfe quantities of dog-fifh, which, with feals, and other inhabitants of the ocean, are its conltant devourerc. Its food conifls of fmall filhes, worms, crabs, and fea infects, and it fattens on herrings. In January, it depofits its fpawn on the fuci near the flhore, and is out of feafon till May. Its thefh is white, firm, delicate, and eafy of digeltion.

Doife. Varied, with an even tail, and upper jaw callarias. longeit. Somewhat fmaller than the haddock, feldom exceeding the weight of two pounds. Its colour is fubject to vary with age and feafons. It inhabits the northern fens, the Baltic, and the Mediterranean. Otto Fabricius found in its fomach the fea-forpion, fandcel, crabs, and different Species of fea-worms. It fpawns in January and February, is taken both by the line and net, and is reckoned delicate eating.

Common cod.-Tail nearly equal, the firf ray of the morlue. anal fin armed with a fpine. This well-known and important fpecies, which yields food and wealth to large diftricts of country, is found in immenfe thoals. It meafures from two to three feet long, is of a cincreous colour, with yellowih fpots above and white below, and has larger fcales than the other Species of this genus. The young are fometimes reddifh, with orangecoloured fpots. It feeds on fepix, crabs, and filhes, not even fparing its own fecies, catching at any fmall body it perceives moved by the water, and throwing up what it does not digen. Its range of climate lies principally between the latitudes $50^{\circ}$ and $66^{\circ}$. The great rendezvous of cod is on the banks of Newfoundland, and the other fand-banks that lie off the coafts of Cape Breton, Nova Scotia, and New England. This fifh likewife abounds of the Hebrides, Ireland, the coaft of Holland, \&c. and is generally fatteft and moft numerous where the greateff fea runs. In our feas they begin to fpawn in January; though fome continue in roe till the begimaing of April. As they recover fooner after fpawning than moft other filb, it is cuftomary to take fome good ones all the fummer. When out of feafor they are thin-tailed and louiy; and the lice chictly fix themielves on the infide of their mouths. Thofe moft efteemed for the table are of a middling fize, and are chofen by their plumpneis and roundnefs, efpecially near the tail, by the depth of the furrow behind the head, and by the regular undulated appearance of the fides, as if they were ribled. The glutinous parts about the head lofe their delicate flavour after it has been four-and-twenty hours out of the water. The fila itfelf dics on being removed from falt-water, or put into freflh. The fifhermen are well acquainted with the ufe of the air-bladder, and dexteroully perforate the living firh with a needle, in order to let out the air; for without this operation the filh could not be kept under water in the well-boats, and brought frefl to market. The founds, when falied, are reckoned a

Ingas delicacy, and are often brought in this fate from New$\underbrace{\text { Futhes. fuundland, The Icelanders prepare from this part of }}$ the fith a pecies of iniaglaf. Pemmant makes mention of a cod taken at Scarborough in 1755 , which was five feet eight inches in length, and weighed $7^{8}$ pounds. But the general weight of the fe fill in the Yoik thire feas is from $1+$ to 42 pounds.

Bib.-The firit ray of the ventral fin fetaccous; about a foot long; body deep, and fides comprefled; eyes covered with a loofe membrane, fo as to be blown up at the pleafure of the animal. The mouth is fmall, and under the chin is a cirrhus about an inch long. Native of the European feas, and prized as an article of food.

Whiting pout.-Seven punctures on each fide of the lower jaw. Much deeper in proportion to its length than any of the genus, rarely exceeding a foot in length; and one of that fize being nearly four inches in the broadelt part. Inhabits the Mediterranean and northern feas; burrows in the fand, and feeds on the blenny, falmon, and even young crabs. Its tlefh is white and delicate, but fomewhat dry.

Poor.-Vent in the middle of the body. Yittle more than fix inches long; a fmall beard on the chin, and the eyes covered with a loofe membrane. The abdomen is lined with a black peritonæum. 'The poor is fuppoled to feed chietly on worms and infects, or on the young and foft teffaceous animals. It occurs in the Baltic and Mediterranean, ard in fome parts of the northern feas. It is rechoned a wholeforne food, but is not fit for being falted or dried.

Blennoid gadur.- With didartyle ventral fins. Has the habit of a whiting, and frequents the Mediterranean.

Saida gadus.-Bluilh, with brown back, white abdomen, and the fecond ray of the ventral fins terminating in a long brifle. Lergth about eight inches. Eatable, but dry and juicelefs. A native of the White fea.
** Three dorfal fins, and no cirrlii.
Green gadus.-Greenith back and forked tail. Nearly referbles the pollack. Abounds in the northern feas.

Whiting.-IVnite; the upper jaw longen. Ulual length about ten or twelve inches, and the largeft feldom exceeding twenty. Specimens from four to eight pounds in weight have been taken in the deep water at the edge of the Doyger bank. It is a fill of an elegant make; the body rather long, and cosered with fmall round filvery fcales; the head and back are of a pale brown, and the fides are lightly ftreaned with yellors 'Though found in the Baltic, it is much more numerous in the north feas, and appears in thoals on the coafts of Holland, France, and England, during -he foring, keeping at the diftance of from half a mile to three miles from the fhore. The whiting feeds on fmall crahs, worms, and young filhes, and is particularly fond of fprats and young lierrings, with which the fifhermen generally bait for it, and in default of them, with pieces of frelh herring. This fpecies begins to frawn at the end of the year, and continues to the beginaing of February. Its flell is white, tender, and delicate; but infipid when the fifh is out of Ceafon. The chief time of the whiting fishery in Erance is in

January and February, thougin in Ëngland and Holland it is practiled at a much later period.

Coal-fin. -The under jaw longelt, the lateral line ftraight. When full grown, this fpecies wili frequently meafure two feet and a halt in length, and four or five inches in breadth, and is ditinguihed from its congeners by its very dark or black colour, though the young are brown or olive. It is of an clegant tapering thape, with a pretiy large aud forked tail. It inhabits the Baltic, the northerm, and Nediterranean feas, and fiwarms round our rocky and deep coafte, particularly thofe of Scotland and the Orkneys, affording by its fry, fubfifence to numbers of the pour. In its full grown tlate it is coarfe food.

Pollack.-The under jaw lorgeit, the lateral line pollachius: cursed. This feccies is broad, and of a brown colour; feeds chiefly on fmall filhes, efpecially launces; and feldom grows to a very large fize, though fome have been taken at Scarborough which weighed nearly 28 pounds. It is found in the Baltic and northern fea, and is very common on many of our rocky coalt,. During fummer it is feen frolicking on the furface of the water, and will bite at any thing that appears on the top of the waves. It is reckoned a good eating fith.

*     *         * ITr:h two dorfal fins.

Hake.-Beardlefs; the under jaw longef. Con-merluccifiderably lengthened, meafuring from one to two feet; $u s$. the body pale ath-colour on the back, and whitin on the fides and abdomen. 'This filh, which is very voracious, frequents the Mediterranean and northern lcas. Its theth is eatable and tlaky, but little efteemed. It is falted and dried as food for the lower orders of people. One of the molt confiderable hake-filheries is carried on about the coalts of Rrittany, both by the hook and net. It is practifed chiefly by night. "The baits principally ufed are launces, fardines, and other fmall fithes.

Lins.-Bearded; the upper jaw longent. Long and molva. flender ; the fides and back fometimes of an olive hae, and fometimes cinereous; abjomen and ventral fins white, and the tail marked near the end with a tranfverfe black bar, and tipped with white. Its ordivary length is from three to four feet, but it will fometimes grow to feven. It is an inhabitant of the nortliern feas, chietly frequenting deep water, living on fmall fifhes, fhrimps, \&c.; and depofiting its fassn in June, among the fuci in oozy bottoms. In the Iorkthire feas, it is in perfection from the beginning of February to the beginning of May, during which feafon the liver is very white, and abounds with a fine flavoured oil. In many places ling is falted both for exportation and home confumption. An excellent ifinglafs is prepared from its found.

Leverian gadus.-Somewhat cinereous, with oceliated lezerian= whitith fpots. Suppofed to be a native of the Southern $u s$. occan.

Whitifs gadus.-Bearded; ventral fins didact yle and albidus. clongated. Inhabits the Mediterranean.

Toad gadus.-Bearded; gill covers with three fpines: :au. the firf dorfal fin with three rays. Native of the American and Indian feas.

Burhat-Bcarded; the jaws of equal length. Budy lota, much lengthened, Comewhat cylindrical, of a brownifh.
yeliew culour, and white below; but the flades vary at different feafuns, and in difierent individuals. It is a frefli-water fifh, affecting clear lakes and rivers; feeding voracioufly on all the fmaller fifhes, as well as on frogs, worms, and aquatic infects; fawning in the finelt feadon of the year, and rapidly attaining to full growth. The largeft which are taken in England rarely exceed the weight of three pounds; but in fome parts of Europe they are found of more than double that weight, and of the length of three feet and more. They occur in great plenty and perfection in the lake of Genera, and are by no means rare in many places in Europe, Siberia, and India. In England it frequents the lakes of the northern counties, fome of the Lincolnithire fens, and the rivers Witham and Trent. Its Hefh is white, delicate, and eafy of digeftion ; and its liver, when in feafon, is reputed a peculiar dainty. Aldrorandus makes mertion of an old German countefs who expended the greatelt part of her income in the purchafe of this dilh. According to Black the burbot fifhery once prored fo productive in the Oder, that the fattelt were cut into narrow thongs, which were dried, and ured as matches.

Ilinfal gadus, friv-bearded cod, or whifle-fifh.-Five cirrhi ; the firft dorfal fin incomplete. Grows to nearly 19 inches: feeds on the teftaceous and crudtaceous marine animals; depofits its fpawn in autumu; is covered with mucus and very thin fcales; and is of a brownifh yellow colour, with black fpots, and wh:te below. The micirratus and the rufichis are only varieties of this feccies.

Cindrinn gadies.-Four cirrhi ; firf dorfal fin incomplete, with the firlt ray laffated. Nearly allied to the preceding. Native of the Atlantic and northern feas.

> **** Wïh one dorfal fin.
mediterraneus.
brofme.

Elemius.
Head noping, and covered with fales; gill-membrane fis-rayed; body lanceolate; ventral fins with two dininelefs proceffes, the anal fin detached.

> * Mith eropied liead.
gabrita.
crijlatus.
cornutus.
"celicris.
Aledierrancan gadus.-Two cirrhi on the upper lip, and one on the lower. Native of the Mediterranean. Confidered by La Cepède as a blennius.

Tor/R, or tu/k.-Mouth bearded; tail oval and acute. About twenty inches in length; colour of the head duky, of the back and fides yellow, of the belly white. Inhabits the northern feas, about the Shetland iflands, and is not obferved lower than the Orkneys. Both barrelled and dried, it forms a confiderable article of commerc.

Cr.fied llenny.-Crell tranfverfe, and dimny. Length about four or tive inches; body lusig, comprefied, and thippery. The creft erceted or deprefled at pleafure. Inlabits the European fea, and is fumetimes found about the roky conds of Great Britain.
Panern-Longitudinal fetaceous creft between the eyes. Native of the 1ndim leas.
Horned lVenny.-Simpie ray between the eyes; and fingle donfal fin. Lulabits the Indian feas.
Ocr!lased lk:my.-Blucith-gheen: lubfafciated with
brown broad dorfal fin, manked by a black ocellated fpot. Length about fix or eight inches. Inhabits the Mediterranean, among the rocks and fea-plants near the thore. Its neth is meagre and not much efteemed.

Fafcinted blenny. - Two dimple cirrhi between the fafciatus eyes; the vent fin with 19 rays. Native of the Indian feas.

Salient blenny.-Brown, ftreaked with black, with a faliens. fimple cirrhus on the head, and very large pectoral fins. Obferved by Commerfon about fome of the fouthern illands, particularly thofe of New Britain. It was feen fwimming by hundreds; and, as it were, tlying orer the furface of the water, occafionally fpringing up and down with great rapidity among the rocks.

Gattorugine. - Small palmated fins on the eyebrows gattorugi and nape. Inhabits the Mediterranean and Atlantic; ne. and is reckoned eatable.

Supereilious blenny. - With palmated fuperciliary fupercilio cirrhi, the lateral line curved. Grows to the length fus. of about twelve inches; is viviparous; and inlabits the Indian feas.

Tentaculated blenny-A fimple cirrlsus over the eves, tentacula. and a large ocellated fpot on the back fin. Nearly al-ris. lied to the horned fpecies; and is found in the Mediierranean.

Simous blenny. - With a very fmall cirrhus over the fimus. eyes; dorfal fin united behind to the caudal fin, and crooked lateral line. Length about three inches and a half. Defcribed by Swief, from a fpecimen in the mufeum of the Peterburgh Academy.

Hake Henny, or forked lake.-Noftrils fomewhat phycis. crefted, a cirrhus on the upper lip, and two dorfal fins. Grows to be ẹighteen inches long ; inhabits the Mediterranean, and occurs on the coalt of Cornwall. Improperly claffed by Pennant among the gadi.

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** Head plain, or creflefs.
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Trifurcated blennz, or trifurcated hnke.-Brown trifurcawith white lips, and three-rayed open ventral fins. fus. Much allied to gadus tau; was frit difcovered by Mr Davies near Beaumaris, and defcribed by Mr Pennant as a gadus.

Punctulated blenny.-Whitih, fcaly, with irregular puncfula. brown points, and elongated ventral fins. Head large; tus. fize about five inches. Defcribed from a fpecimen in the Paris mufeum.

Smoork blenny.-The lateral line curved, and fub-pholis. bifd. This Species, which frequents the northern and Mediterrancan feas, lying among flones and fea-weed, and occafionally entering the mouths of rivers, will grow to the length of feven or eight inches, but is ufually much fmaller. It bites fiercely, when firft taken, and is fo tenacious of life, that it may be kept 24 hours out of water. It feeds on fmaller fifhes and their fparm, as well as on Rell-fifh, fea-infects, \&c. It is fmooth, and covered with mucus. Being a coarfe fifl, it is principally ufed as bait.

Bofcian blenny.-Olivaceous, with brown and whitih bofcianus clouds; vent in the middle of the body. Very much allied to the preceding. Native of the American feas, and rery common in the bny of Charleftown. It has its uame from $M . B u f$, by whom it was difcovered.

Gunne!, fpolted lilenmy, or tutter firp-The dorfa! geneilus. fin marked with ten occllated black: frots. About :ine or ish inches in la:ngth ; !ead fenall, body con- clouded and freckled with deeper lpeck:. This fpecies inhabits the Baltic, Mediterranean, and nothern feas. Though coarfe, it is often dried and eaten by the Greenlanders. The number of fpots on the back fin varies from nine to twelve.
Afclaris. Weafel blenny. - The anterior dorfal fin three-rayed. Native of the lndian feas.
Viviparous blinny.-Two tentacula at the mouth. Is fometimes found of the lengtl oì a font, or even of 15 inches. Oi a fomewhat nender form, with a fmooth flipoery $\mathbb{k} \mathrm{in}$, cosered with fmall fcales of a yellowilh olive colour, paler bencath, and marked on the upper parts by feveral moderately large dulky fpots, forming a kird of bars on the dorfal fin and over the back. The ray of all the fins are foft. This fpecies is a littoral fill, frequenting the coalls of the Mediterranean, Baltic, and northern feas; fometimes entering the mouths of rivers, and feeding like its congeners on the fmaller fifhes, infects, \&cc. Its ova are hatched internally, and the young acquire their perfect form before the time of their birth. Not lefs than tiwo or even three bundred of thefe have been fometimes obferved in a fingle filh. When the latter is adranced in its pregnancy, it is fcarcely polfible to touch the abdomen without caufing the immediate exclufion of tome of the young, which are immediately capable of fwimming with great vivacity. It probably breeds more than once in the courfe of the year ; at lean naturalifts have affigned different feafons to the production of its young. Its flefh is white and fat; but a prejudice has been entertained againf it, becaufe the bones, like thofe of the gar-filh, become green by boiling. According to the obfervation of Linnæus, they are alfo phofphorefent in the dark.

Areslated blen:zy.-Yellowith, with fubcylirulric body, marked on the back by brown paiches. luhabits the deep fandy fhores of the Mediterranean, and conceals it felf among fuci, fones, \&cc. Sometimes grows to 10 or 12 inches.

Frog blenny.-Brown, with obfcurely fix-cleft ventral fins, and gular cirrhus. Native of the northern feas and of the Swed:fh lakes; in habit refembling the gades tau. Is not catable, and is haid to frighten away other fifh.

MIrrensid blenny.-Gill-membrane three-rayed; ventral fins one-rayed, with rery minute fpines. Body comprefled, fword-ikaped, fmooth, and without vifible fcales. Defcribed by Swief from a fpecimen in the Mufeum of the Peterburgh academy.

## Gen. 6. Kurtus.

Body carinated aboye and below, back elevatcd, gillmembrane two-rayed.

Indian kurtus.-Silvery with gold-coloured back. Inhabits the Indian feas. Length, including the tail, about ten inches, and the greateft breadth fomewhat more than four inches. Feeds on fleell-filh, fmall crabs, \&c.

## III. THORACIC.

Thr. finies of this order have the ventral fins at the breaft, or nearly under the pectoral fins. Whey are
generally voracious, presin:\% o:i oliee: filies, eliey áre Tl oracie noflly inhabitans of the fea; aisd their fleins, with a few exception, are furnilhed with icales. None of them are viviparous.

Head roundih and compreffed; mouth turning ur, a fingle row of curved teeth; gill-membrane fix reyed; body frord-haped and fcalelefs; the abdomen farcely fo long as the liead.

Common bandfifb ritibard fffe, or iape-fifo-lania. Caudal fin atteruated, head very obtufe. Very thin, and almoft tranfparent, fo that its vertebras are vilible. Grows to the length of four or five feet. It fwims with rapidity, and haunts the muddy or weedy fhores of the Mediterranean. Scarcely eatable, laving little or no tlefl.

Rubefocnt band-fifh.-Caudal fin attenuated, jaws rubefocnss pointed. A rare fpecies, and not very difinctly de fcrioed by authors. It is faid to inhabit the Mediter. ranean.

The other fecies are trachyptera and hermanniana.
Gen. 2. Grinetrus.
Gymetrus.
Body very long and compreffed; tecth numerous and fubulate; gill-membrane four or five-rayed; anal Ga wanting.

Afcamian gymnetrus.-Silvers, fpeckled longitudi-afoanio. nally with brown points, and with the ventral cirrhi dilated at the tips. "This fingular filh, which is but imperfectly defcribed in the Icones Rerum Naturalium of Profefior Arcanius, is diffinguifhed by the peculiar conformation of its ventral fins, which have more the appearance of long fingle rays or procelles terminated by a fmall ovate and espanded tip. It is faid either to precede or accompany the fhoals of herrings in the northern feas, and is popularly denominated king of the herrings. That defcribed by Dr Shaw from a drawing and notes in the pofielion of Dr Rulfel, is perhaps either a variety or fextal difference of the afconian.

Hawkingian or Blochian gymnetrus.-Bluith, filvery, havekemia. with oblique, linear, brown bands, and rounded fpots, red fins, and four long ventral procelfes. Defcribed by Dr Bloch, from a drawing comenuniceted by J. Fiawins, Ěrq. In gereral appearance, much ailied to the other kinds of gymnetrus; from which, however, it is readily diftinguilhed by its two pair of ventral proceffes with their finny extremities, and large diftant round fpots on the body. A native of the Indian feas. A frecimen was thrown on the coaft of Curnwall in February 179 ?.

Cepedian gymmetirus.- Defcribed by La Cépède, from Ianceolaa coloured Chinefe drawing, therefore very imperfectly tus: known.

Gen. 3. Vandellius.
Vardellius
Pody very long and fword-thaped; gill membrane five or fix.rayed; teeth fubulate, and ihofe in front largefl.

Luftamian rardel.-Silvery, with forked tail. Oc-lufitantise curs, though very rarcly, in the Mediterranean and Atlantic feas. It has bien fometimes tak'en near Lif-

Thoratic bor. 1)r Yandelli confiders it as nearly related to the fith. s. grenus trichiuros. There is in the Britith Mlufeum a
dried feecimen, whicls is four feet eight inches in length, the breadth three inches and a half, and the thicknefs very flight in proportion.
Echeneis.

## Gen. 4. E.chenis.

Head oily, naked, and depreffed, that above, and emarpinated, tranfecrlely fulcated, and the fulci ferrated; gill-membrane ten-rayed; borly fcalelels.
rerrora.
Medierrancan remora, or fucking-fifn.-Tail forked; head with eighteen llrix or bars. This number, however, is fubject to vary, and cannot be lifely affumed as a certain character. Grows to the length of about eighteen inches, and is ufually of an miform brown culour. It is remarhable for the apparatus on its head, by which it firmly adheres to rucks, Alhips, or animals, being incapable of fwimining eatily to any confiderable diftance. From this adhefive property arcfe the marvellous account of the ancients, who albedsed that the remora could arrett a lhip under full fail in the midft of the ocean. 'They alfo pretended, that it completely fubdued the pation of love. Five individuals of this fpecies have been found fallened to the body of a lingle thark. The latter lifh, it is faid, will not fwallow them. 'The Indians of Cuba and Ja. maica formerly kept and fed fucking-ffles for the purpofes oi catcling others. The owner, on a calm monning, would carry one of them out to fea, fecuned to his canoc by a fmall but flomg line, many fathoms in length; the creature fattened on the firft fill in its way. The Indiar, meanwhile. loofened and let go the line, which was provided with a buoy to mark the courfe which the fucking-fift had taken; and he purfued it in his canoe, uritil he perceived his game to be nearly exhaulted. He then gradually drew the line towards the flore, the remura dill fo indexibly adhering to his prey, as not eailly to be removed. Oviedo fays, he has known turtle taken by this mode, of a weight that no fingle man could fupport. This fpecics inhabits the ocean and the Mediter:anean, Its ilefl is laid to taite like fried articisokes.
neucrabes. Indian remora, or !cuge focking-ffin. Tail entire; 24 bars on the head. Dccurs more frequently in the ladian and dmerican feas than in thofe of Europe, and is pory common about the Mozambique coatt, where it is uted in catching turtle. It is found of the length of two or three leet, or even of feren. The upper parts of the boty are olise green, and the under parts are whith. Its theth is tourh and meagre.
lineara.
Limated remara.--Tail wedge-lhaped; head with ten: bare, two longitudinal white lines on each fide of the body. Inhabits the Pacific occan.

Coryphrna.

## Gen. j. Corypheris.

Head much loping and trurcated; gill membrane neverayed; the dorlal fin of the length of the back.
hippurus. Conmon coryphene, or distpling. Furked tai!. In. hatits the Mediterranean, Indian, and Atlantic feas, often appearing in large foons, playing round flips, and eagerly devouring any ureces of food that happen to be thrown werboad. I will evan fwallow indi. geftible fubitances, fuch as iron railo, \&e. Like its
congeners, it exhibits fylendid and vivid hees in the Theracie water, being of a bright and beautiful blue-gseen, ac- Fifhes. companied by a goiden glofs. When taken out of the water, this fne combination of colouring gradually yanithes with the principle of life. Its ordinary length is about three feet; but it is often leen of four, or even five feet in length. It is frong and voracious, purfuing the finaller fithes, and efpecially perfecuting the bying - fin, I: fipring and autumn it frequents bhores, to depolit its framn. As its tlelh is much elieemed, it is taken both with the line and net. Though popularly called dol. phin, it is not to be confounded with the delplimus of the ancients.

Of the following, which more or lefis refemble the preceding, the hiltory is too obfcure to detain lis: equiferir, plumicri, cuerulen, penteriachla, nozaculu, chigfirres, pumpitus, fofioiola!, eclifera, pifitacus, fcomberoides, acala. fima, virens, liemiptera. Urangbinfega, japoniter, cluptala, lineata, and fincnis.

## Gen. 6. Macrocerus.

Head and eyes large ; body at the hind pirt attenuated into the tail.

Long-tailed imminfot. Two doral fins, of which the rufefleis. firt has the firft ray toothed at the back. I his is the comphatna rupefiris of Linnews.-It cluetly occurs about the coalis of Greemland and Iceland, where it is regarded as a duinty. The head is large and thick, and the body is covered with rounded trales, each of which is furnithed with a toothed carina, ending in a pointed tip, fo that the hand is wounded by drawing it over the fin from the tail towards the head. When taken, its body fwells, as if with rage, and its eyes project in a hideous manner.

Gen. 7. Gobsus.

Head fmall, with two approximated pores between the eyes, one pore placed before the other; gill-membrane four-rayed; body fmall, compreffed on hoth

- fides, covered with fmall fcales, and furnifhed with a pimple behind the vent; the ventral fins coalelcing into an oval flape; two dorfal fins.

Commor, or black goby, fea gudgcon, or miller's-niger. thumb. Fourteen rass in the fecond dorfal fin. Grows to the length of fix inches. The body is wedgc-fhaped, foft, and ilippery, and overfpread with fmall dufky or blackith fpecks.-This fpecies is faid to affix itlelf to the rocks by the union of its ventral fins in the form of a funnel, from which circumftance it is fometimes called rock-ffh. It is a native of the Meditesranean and fouthern feas, frequenting the lhores in the beginning of funmer, when it depofits its ipawn. It is edible, but not held in particular eftimation.

To this numerous genus alfo belong licolor, cruentaius, paganellus, arabicus, nebulofus, elearris, aphyn, minutus, jozo, pectinirg fris, folifoleri, tacianurus, bod. daerti, laguceplaius, cyprinuides, lanceuintus, bofocii, crerulens, brouffoneti, plumieri, occllaris, ater, and anguilaris.

## Gen. 8. Gobionorls.

Ilabit as in the preceding genus; ventral fins diftinct.

Thoravi Pice green, witl red fpots; whituh beneasl: ; head variegated with yellow, and the fins with ied.-Native of the foutlern octan.

## Gen. 9. Cotrus.

Head broader than the body, and armed with fpimes; eyer vertical, furnibed with a iatitating membrane; gill-membrane fix-raved; boly round, without fcales, a:ter:uated towards the tail; doral frss more than one.

Nailad or armed bull-hicat, or pogge. Covered with a hard coult ; two bind waits on the ruttrum; laead furnihed with circhi below. General length about five or fix inches. The head large, bony, and rugged; the body oftagonal, and covered with a number of Atrong bony crufts.-Frequents the European fens, and is pientioul on our own coafs, living on worms and water infecte, particularly young crabs, and !pawning in the reonth of Siay. It is drefed fo: the table, but not elteemed a luxury.

Four horned twilh-head, with four bony tubercles on the head.-Native or the Mediterranean, Daltic, and northern feas. Ufed chiefly as a bait.
Grunting bull-head. Throat fhagged with cirrhi; body naked. -When firft taken, it utters, like fome of the gurnards, a kind of abrupt grumting found, by the fudden expulion of air from the internal cavities, throrgh the gill-covers and mouth. It is reckoned efculent; but the liver is faid to be hurtful. Native of the Indian and American feas.
Lafocr bull.ical, or father lafuer. Severat fines on the head; the upper jaw rather longer than the lower. Inhabits the Mediterranean, and the northern ocean of Europe and America. - It is very ftrong, fwims with great rapidity, and is very voracious, preying on the Elennies, cod, herring, falmon, as well as on fmaller fithes and in,fects. It is very frequent in Greenland, where it fometimes attains to the length of fix feet, and where it is much relihed as an article of food. It is faid to be able to live a confiderable time out of water, having the power of clofing the gill-covers fo as to exclude the effects of atmopheric air. Like the grunting bull-head, it utters a ftrong found when firt taken.
River bull-head, or miller's thumb. Smooth, with two fpines on the head. - Inhabits the clear rivers and brooks of Europe and Silheria, generally lying on the grave?, or concealing itfclf beneath the fones, preying on worms, water infens, and very young fifhes. It depofits its fparen in March or April. In this country its lengeh fildom exceeds three inches and a half; but in other parts of Europe it feems to arrive at a fuperior fize, and is even found of the length of feven inches. It is of a yellow olive colour, has a large head, flippery thin. and tapers to the tail. It is moot readily caught during the night, and its fiefl, which grows red by boilina, is efteemed gcod ard wholefume.
Infidious iuli-hcad. Head marked above by flarp lines. and on each fide by two (pines.- Native of the Arabian feas, in which it conceals it felf under the fand, and fprings on fuch of the finaller fithes as happen to approach its haunts.

To this genus alfo appertain folter, japonicies, naffllienfis, monopicrygius, madagafcuricerfis, riger, and auAralis.

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> Ger. 1c. Slormana.

Head large, aculeated, cirrhated, obtufe, fcalelefs, and scaranus. fubcomprofied; eyes anproximated; teeth in the jaws, palate, and fiuces; gill membrane §even-rayed ; body hellhy; oue dorfal kn, long; the frif rays rpincus.
Parciue fcorporna, little foa frortion, or fa decul-purcu: Cirrhi at the cyes and noftrils. Common in the Mediterranean. Seldona excceds a foot in length. Wounds with the finines of its dorfal din. Fletle tough, and fcarcely eatable.

Rifous forpata, or larger fa fcorpion. - Two cir-hi fon fa. on the under lip. Larger than the preceding, being fometimes four feet in length. It preys not only o: the fmaller filles, but, occationally, oit marine birds. Inhabits the Atlantic, Mediterranean, and northern feas.

Horvid fcorponne.-Scattered over with callous tu-horrida. bercles. Of a very uncouth and forbidding afpee?. Meafures from 12 to 15 inches in length, and inhabits the Indian feas.

Flying foorperna.-Thirteen rays ia the dorfal fin seralitils. fix cirrhi, the pectoral fins longer than the body. Like filhes of the exocætus and trigla genus, it ufes its pectoral fins for the purpofes of occalional flight. Native of the rivers of Japan, Amboyna, \&ic. where it is reckoned excellent food.

Beffides the preceding, naturalifts reckon phumierz, commerfonii, bicapillata, brachiata, aculeata, barbata, antennata, caponfis, Jpinofa, and americara.

Gen. 1s. Zeus.
Head compreffed, and floping; vepper lip arched with a tranfverie membrane; tongue fubulated; gill membrane with feven perpendicular rays, the lowelt tranfverfe; body compreffed, thin, and Alining, the rays of the firt dorfal fin ending in filaments.
Brafilian dory.-The fecond ray of the dorfal and vomer. anal fin very long. Of a rhomboidal thape, about fix or eight incles long, very thin, and fealeleff. Native of the American feas, and fometimes leen in thofe of the north of Europe. Edib!e, but not much in re-. quef.

Infidious dory.-With a narrow mouth. Native of infifiator. the rivers and frefh waters of India.

Indian dory. - The tenth ray of the dorfal and the fe-gallus. cond of the anat fin longer than the body. Native of gallus. the American and Indian feas.

Eiliatea dory.-With fome of the rays in the dor $\mathrm{r}_{3}$ ~ liaris. and anal fin very long. Native of the Indian feas.

Common dory.-The tail rounded; a brown central faber. fpot on each fide of the body; two anal fins. Grows to nearly 18 inches in length, and weighs from 10 to 12 pounds. The head is abrupt, the mouth wide. the back much arched, and furnilhed with a row of llrong fmall prickles. The body is covered with very minute fcales, duky brown above, and of a fhining yreenith yellow on the fides. 'We are indehted (fays ilr Penmant) to that judicious actor and bon vivant, the late Mr Quin, for adding a molt ielicious fith to rur table, who avercoming all the vulgar prejudices on accol: if its deformity, has effectually effablifhed its reputation.'

Theracie Fine:
r.

क्रalu
guadratus. Square dory.-Tail even; body cinereous, with tranfverfe dufky bars. Native of the coalts of Jamaica.

## Pleuror.ec-

¿es.
Head finall ; eyes foherical, boih on the fame fide of the head, and near each other; mouth arched ; jaws with tecth, and uncqual ; gill-nembrane, with four :o feven rays; the gill-cover, in moft of the fpecies, confiling of three plates; body comprefled, carinated ; the one fide fomerrhat convex, anlivering to the back; the other, of a paler colour, to the belly; the vent nearer the head than the tail.

The fillies of this genus are remarkable for having both eyes on one fide of the head; and they are dividcd , into two fections, according as they have the eyes lowards the right, when the animal is laid with its coloured file upwards, with its abdomen towards the fpec:ator; or to the left, when the filh is in the fame fituation.

## * With eyes turuards the right.

## hippogiof.

 ons.cgnoglof. fiss.

Flatela.

Hoillut.- The whole body fmooth. Dulky above, pure white beneath. Narrow in refpect to its length. Individuals have been taken on the Englift coaff, which weighed from 200 to 300 pounds; and the Icelanders have caught fome which weighed 400 pounds. Olafsen mentions, that he faw one which meafured five ells; and we are told by the Norwegian fihermen, that a fingle holibut will fometimes cover a whole ihiff. 'This fpecies, then, is more entitled to the epithet maximus, :han that to which it is applied. Though it imhabits the Mediterranean, it arrives at a larger fize in the northern feas of Europe and America. It is fo voracious, that it devours rays, crabs, haddocks, and even lump-fill, of which it feems to be very fond. The part of the body nearef the fins, is fat and delicate, but furfeiting; the refl of the fifi is regarded as coarfe food. The Greenlanders cut it into thin flips, and dry them in the fun. This finn depofits its fawn in fpring, among rocks near the fhore.
Smaller lolibut.-Body fmooth, oblong; teeth obtufe; tail roundifh. Very like the preceding, but fmaller, and more relifined as an article of food. Native of the northern feas.

Plaife-Body fmonth, with fix tubercles on the had. Readily diftinguihed by its rery broad and dat
fhape, its pale brown colour above, and the orange-coloured fpots rith which it is marked. One of circht or nine pounds is reckoned a large fifh, though intances occur of their weighing 15 pounds. They 「pawn in the beginning of May, and ase common in the Baltic and northern fers. 'The bett are laid to be taken off Rye, on the Suliex coaft, and near Holland. 'They are in confiderable requent in the fih-market, though far inferior to the lole and urbot.

Fioundsr. - With a relagh lateral line, and a feries offlefus. fpines at the bafe of the fins. Esitly diftinguifhed from the relt of the genus by the fpecific character ; and very generally known, as it inhabits every part of the Britim fea, and even frequents our rivers at a coriderable difance from falt water. It likewife occe:s in the northern, Baltic, and Alediterranean feas. In fize, it is much inferior to the plaife; but it affords a light and wholefome food.

Dab.-Scales ciliated; fmall fpines at the origin oflimands. the dorfal and anal fins; teeth obtufe. Of a very broad, ovate thape, yellowih brown above, and white beneath. Inhabits the fame leas as the plaife and tounder; but is lefs common, of a fraller fize, and more prized as an article of food.

Smear dab, or kit.- Iellowilh brown, with fmooth lavis. fcales; five duay fpots, white berseath. Caught on the Cornifh coaft.

Long dab.-Body oblong and rough, lateral line limando flraight and broad. Nuch longer than the dab. In-ides. habits the northern feas, and is efteemed at table.

Rofe-colazred fiounder.-Colour of a delicate rofe; rofeus. and general proportions thofe of a Hounder. Taken in the Thames, and preferved in the Leverian mufeum.

Sole-Body oblong and rough; upper jeiv longeft. folea. More narrow and oblong than any other of the genus. Sometimes grows to the length of more than two feet, and to the weight of eight pounds. Its general fize, however, is much fmaller. Thofe of moderate fize are generally in moft requef for the table; and, next to the turbot, are reckoned the moft delicate of the genus. The fole is an inhabitant of the northern, Balic, Mediterranean, and American feas. On the weit coaft of Great Britain it attains to a much larger fize than on the ean. The principal fole-fithery is at Brisham, in Torbay.

Smooth fole.-White, traniparent, with fmall, thin, diaphanus deciduous fcales. Found about the coafts of Cornwall, where it is called lantern-fob,

## ** IVith eyes towards the left.

Whiff-Body broad and rough. Native oi the punciatus. northern fea.

Pear\%-Body fmooth; pale brown abore, marked rhombus. by fcattered yellowifh, or rufous fpots, and white beneath. Refembles the turbot, but is inferior in fize. Native of the European feas.

Tinbot, or bret; pleuranecles maxim:as of Linnæus.- tubercula Body rough. This fifh, which is reckoned fuch deli-tus.
cate cating, is found both in the Mediteranean and and northern feas. It is broader and fquarer than any of the genus, except the pearl, and is of a dark brown above, marbled with blackifh fpots of different fizes, and white beneath. Like the reft of this genus, the turbot generally lies in deep water, preying on worms, flell-filh, fmall fithes, \&ic. It is taken in great guan-

Theracic tities about the notthern coafts of England, as well as Filhes, on thofe of France, Holland, \&c. They are fo extremely delicate in their choice of baits as not to touch a piece of herring, or haddock that has been 12 hours out of the fea. "Ihough the turbot and holibut are often confounded in our markets, the former may be eafly recognifed by the large, unequal, and obtufe tubercles on its upper part.

In this numerous genus are allo clafed trichodanfylus, zelia, plasiufa, ocellatus, rondeletii, linguaiula, glacialis, plateffides, argenteus, barbatus, narmoratus, parosninus, linectus, bilineatus, ornatus, dentatus, macrolepidorus, paffer, popillefus, argus, fellatus, and japonicus.

Head fmall; mouth narrow, with retractile lips; teeth generally fetaceous, flexible, moveable, equal, vary numerous, and clofe ; eyes round, fmall, vertical, and furnihed with a nicitating membrane; gillmembrane from three to fix-rayed; body broad, thin, compreffed, covered with hard fcales, and coloured; dorfal and anal fins rigid, fleliy, fcaly, and generally terminated with prickles.
To avoid much unneceffary repetition, we thall obferve, in general, that upwards of 60 fpecies of chæiodons have been ditinctly afcertained; that they are moftly natives of the American and Indian feas; that they are diftinguihed by the great depth and highly comprefled form of the body, which is often beautiful. ly variegated by tranfverle, oblique, or longitudinal bands, and covered with ftrong fcales, finely denticulated on the margins; and that the dorfal and anal fin are remarkably broad, and, in many fpecies, of an unufual length.

One of the moft remarkable fpecies of this genus is the rofiraius, roftrated or beaked chutodon, with an entire tail, nine fpines in the dorfal fin, an ocellated fpot on the fides, and the beak cylindrical. It is of a roundith-ovate fhape, about fix or eight inches in length, of a whith colour, with a duly tinge on the back, and marked by fine tranfverfe and nearly equi-diltant hrown bands, with nilk-white edges. It is a native of the frelb waters of India, and feeds principally on Hies and other fnall wirged infects which hover about the furace of its native waters. When it fees a fly at a difiance, alighted on any of the plants in the fhallow water, it approaches very flowly, and with the utmof caution, coming as much as poflible perpendicularly nnder the object. Then putting its body in an nslique direction, with the mouth and eyes near the furface, it remains a moment immoveable. Having fixed its eyes directly on the infect, it darts at it a drop of water from its tubular fnout, but without fhewing its mouth above the furface, from whicb only the drop feems to rife, and that with fuch effect, that, though at the diftance of four, fire, or fix feet, it very feldom fails in bring its prey into ilse water. With the clofett attention the mouth could never be diforered above the furface, although the fill has been feen to fpout $\{$ everal drops fuccellively, without leaving the place, or in the fmaltest apparent degree moving its body. This rery fingular mode of attacking its prey was reported to M. Homei, gosernor of the hofpital at Batavia, and in fur excited his curiofity, that he ordered a large tub
to be filled with fea-water, and had fome of cine fintes Thoracic caught and put into it. When they were reconciled to Fines. their conninement, he caufed a flender flick, with a fly fattened at the end, to be placed in fuch a manner ein the fide of the veffel, as to enabie the fifs to frike it ; and it was not without inexpreflible delight, that he daily faw them exercifing their \&-ill in lacoting at it, with amazing force, and leldom miling their mark. This faculty is poffelfed by a tew other fpecies belonging to very different genera. The tleth of the roltrated chætodon is white and well-talted.

Angel chestodon, or angel-filb of Catelby, is of a finccatefoers, gold-green colour, with the fcales covered by fmaller ones. The pectoral, ventral fins, and tail, are of a rivid orange; and the dorfal and anal, violet-blue at the bafe, and bright crimfon towards the tips.-It is common off Carolina and the Bahama illes, where it is much efteemed for its delicacy.

Imperial checiodon, is a magnificent fpecies, growing imperator. to the length of a fuot or more. Its ground colour is a golden-yellow, which is longitudinally, though fomewhat abliquely, ftriped with very mumerous bright blue parallel rays. It is a native of Japan, and faid to be fuperior to the falmon in Havour.

Sea bat, or bat chatodon, furpafles all the other fpecies vefpertitio. in the great extent and breadth of the dorfal and anal fin, boih which nearly equal the body itfelf in fize, and are of a fomewhat triangular thape. - It is a native of Japan.

Redfiriped chatodon, is ditinguified by numerousfelifer. red fripes on the body, and an eye-flaped fpot and brille on the dorfal fin.

Three-coloured chicetodon, is golden-yellors on thetricolor. fore-part, jet: black behind, except the tail, which is yellow, and red near the end, while the edges of the yill-covers, and of all the firs, are bright red.

## Gen. 14. Acinthurus.

Acanthurus
Teeth fmail, and in molt fpecies lobated; tail aculeated on each fide. 'This genus comprites fuch fpecies of the Limmean chutodion as, in contradiction to the principal character of that genus, have moderately broad and flong teeth, rather than flender and fetaccous onès.
Unicorn acanthurus. Gray-brown; with a frontalunicornis. hom projecting over the fnout, and two fines on each fide of the tail. Oi the length of three fect or upwards. Its horn-fhaped procefs is 月rong and conical, terminating rather obtulely.-It is a native of the Indian and Arabian feas, in the latter of which it is ufually fien in thoals of two or four hundred, fwimming with great ftrength, and feeding principally on the different kinds of fea-seed. It is fingular that formarkable a fifh hould have been entirely overlooked by Linnæus, eren in the twelfth edition of the Suffema. Naturce.

The other fpecies are denominated rafus, touthis, n:gricanr, militaris, tricheyur, harpurves, fohat, migro-fofcus, achilles, lineatus, nimbratus, mrliagris, and qulifer.

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\text { Gen. } 15 . \text { Eouls. }
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Equés.
Teeth in feveral rows; body banded.
American knight-fili. Charodon lunceolatus. Lin.america. Body oblong; yellowith, with three black bands, the nus.

Thotacic firt acrofs the cyes, the fecond acrofs the thoran, and

Fiwhes.

Trichopus. the third aiong the boary. Native of the American fe::

Lody compreffed; rentral fins, with a very iong fila. ment.

Goramy triclopus. Rufeferi, with a Gilvery calt on the fides; and the fecond rat of the rentral fins extrenely long. Native of the feeth waters of Clina, where it is nuch prized as an article of food.

Arabian trichopus. Labris galius, Lin. Greenifh, wit'z vic!et and blue dripes, and fecond ray of the ventral fime rery long. Native of the Arabian feas.

Satyr trichopns. Wiak finking forehead, projeciing chin, and extremely long, fingle rayed, ventral fins. Native of the I: dian feas.

Pallofiantrichopus. La! rus trichopterus, Lin. Brown, with pale undulations, a black fpot on each fide of the body and tail, and long fingle-rayed ventral fins. Native of the Indian fea.

Mu:odafile trichopus. Silvery, with brownith back, and flort, fingle-sayed, rigid ventral fins. Native of the Indian feas.

## Gen. 1\%. Sparus.

Strong cutting or camine tectl, with obtufe and clofelet grinders; lips double; gill membrane five-rayed, gill covers fcaly; body comprefied, lateral line curred bchind; pectoral fins rounded.
Of this very extenfive genus, mof of the fpecies are esotic; and their hiflory is very imperfently known. Confderable confufon talics place with refpect to the characters by which they ought to be difcriminated from the labri, a family to which they are much allied. We fhall briefly notice only a few of the moft ftriking and befl known fpecies.

Gili-head, has a lumbated fpot between the eyes. A more permanent character may be aflumed from the fis: cutting teeth in each jaw. This fpecies is about 15 inches long, but fometimes of a much larger fize. It is of a filvery bluilh caft, with gold-coloured brown, as dometimes with feveral brownih longitudinal ftripes. The body is broad and thin, and the back elerated. The gilt-liead is a mative of the Mediterranean, Atlanlic, and Indian feas; frecpuenting deep water on bold socky hores; and living chiefly on tellaccous animals. It is faid to flecp at fated times, and to be very fufcep:ible of cold. 'The Crechs and Romans reckonid it a mott delicate moifel, and the former held it to be confecrated to Venus.

Rofe fparus, is remarkable for its beantiful rofe-red coiour. In fize and thape, it refembles the perch. It is a native of the Mediterranean and Indian feas, in the latter of which it is faid to acquire noxious qualities.

Fafonacd fparus, is of a fquarifh elongated thape; with tranferfe dutky bands, and the fins edged witl black. It is a native of Japan.

Grecn-tailed /parus, is a native of the American fens, and a highly elegant fpecies; having its yellowih and large feales croficd by a green band, green fins, and sofe-coloured gill covers. The green tail is frongly lunulated, and marked by minute pale fpecks.

A Ariling difpofition of colours likewife ciilinguifaes, the chryf.urrs, or golld tailed. fparus, which is found in the feas of South America. Its general complexion is a bright rofered, which is deepelt on the back; a gold yellow fripe runs on each fide from the gills to the tail, and a fecond 0n each fide of the bottom of the abdomen.

Spined Parms, has the dorfal fpines recumbent, and fpinifer. the five $i$ in the middle filiform, and elongated. It is of a redulith lilvery hue, with the back and tise liaes on the body dufky; hape orate; and length, a foot and a haif. It inhabits the Red fea; and is reckoned a delicious fifi for the taible.
 with large fales bordered rith yellow, and head marked longitudinaliy by namerous blue and yello:v lines. According to Bluch, the blue lines alfu run along the body. Native of the American feas. It is the perca jurmofa w Lintreus.

Infidious foarus.-Red, yellowing on the fides; tail infidiator. fub-forcipated. Length about ten inches. Native of the Indian feac, where, theough its long tubular frout, it floots a drop of water at ilhe infects on which it feeds, in the fame mamer as the rultrated chactodon.

Galikean fparus.-Greenilh, with whitih abdomen. galilicus. Tery common in the lake of Genefareth, and therefore fuppofed to have been the principal fpecies in the miraculous draught of fifhes recorded by Sit Luke.

Desfontaine's fparks.- With 2.3 rays in the dorfal desfontafin, 11 in the anal, and a black fot on the gill-covers. niio. Inhabits the warm waters of Catra in Tunis, which, in January, are about 30 degrees of Reaumur's thermometer above the freezing point ; but it is allo found in the cold and brachith waters furrounding the dare plantations at Tozzar.

Argus /purus.-Of a filvery blue; with many ocellated brown fpots. A very elegant fpecies, of which the native country is uncertain.

Climbing fparus.-Olive-green, with yellowifn abdo-fcandens. men, and gold-coloured eyes. Length about a fpan; ikin covercd by a blackilin mucus. "This fin (fays Dr Shaw is remarkable for its power of climbing, which it performs by the affifance of the fpines of its gill-covers, moving itfelf at pleafure ap the ftems of trees growing near the waters it frequents, In this fituation it was obferved in the month of November 1791, at Tranquebar, by Lewtenant Daldo-ft, who communicated its deceription to sir Jofeph Banke. It was fien afcending a filure in the item of the palm calied soraffus Alabollifer, growing near a pool of water, and was obferved to move itfelf forwards by alternately applying the fpiny fides of the gill-covers to the tilles of the fiffure, afinling itfelf at the lame time by the fines on each fide of the tail, and had already afcended to the height of more than five feet above the water when it was firt obferved: it was found to be very tenacious of life, moving about on dry fand, many hours after it was taken."

## Gen. 18. Scarls.

Infend of teeth, the jairs are eminent, crenated, and bony, with a toothed margin; gill-inembrane fiverayed, gill-cover entire, lateral line generally branched.

Cretan
hap. IV.
ICHTHYOLOGY.
horais Cretan foarus.-Green, yellowith bencath, with very
Finei. large feales, ramifed literal line, and fublimated tail. Native of the Mediterranean and Indian leas. Common about Crete.

Gruen fecrus.-Y Yilowih-green; with large feales, edjed with green"; la:cral line interrupted towards the tail. N.tive of the Japanefe feas.
:ulatus.
Rivulated focriss.-Bluih, fpoted with black, and manied by loagitudiaal ycllow undaations. Native of the Ked lea.

Stellated formr.-Oval, blackin ; variegated with fubhexagonal pale riags. Native of the Arabian feas.

Red faras.-Rofe-red, with filsery abdomen. Nitive of the Indian feas.

Purro: forms.-Greenith, marked with yellowifh lines, and with the edges of the fins, abdominal band, and variegations of the bead, blue. Native of the Arabian feas.
Purpled fcarus.-Duil-green, with three longitudinal ferrated purple bands on each fide, and blue abdomen. Native of the Arabian fens.

Black foarus.-Ovate-o.blong ; blackin-brown, with red lips, and the margin of the fins greenish-blue. Native of the Arabian feas.

Ehue-friped fcarus.- Whitith, with the feales marked hy tranfverfe bluith bands, and double lateral line. Natize of the Arabian feas.

Ferrujinous farus.-Brown-ferruginous, with the ja:ss and margins of the fins green, and tail even. Native of the Arabian feas.

Sordid fcarus.-Brown-ferruginous, with darker-coloured fins, and r:ing, even tail. Native ce the Arabian feas.

Scrly-raited foarus.-Tail-forked, the middle of its back befet with fcales. Na:ive of the Arabian feas.

Schlofirian farius.-Gohl-coloured, with five dulky fputs on each fille, brownifh back, and nearly even tail. Native of Java.

## Gen. 19. Gomphosus.

Jaws lengthened into a tubuler finout ; teeth frall, thofe in the front larger.-This gerus, infituted by La Cépède, contains two fpecies, both natives of the Injian feas, and both agreeiry in the remarkable form of the mouth, which confift of a tubular proceif, fomewhat truncated at the tip.
eruleus. Bhiae gompriofus. - Entizely blue. About the fize of a tench.
ariegatis Fariegated somphofus.-Variegated with red, yellow, and blue. Smaller than the preceding.

## Gen. 20. Labrus.

Teeth acute; lips not doubled ; rill-membrame fix-rayed ; gill-covers fealy; the rays of the dorfal firi fursifhed behind with a filiform procefs; the pectoral fins acuminated ; and lateral line ftraight.
From this very numerous genus, the difcrimination of which has never been accomplified with accuracy, we can affors to feleet only a few fpecies.

Ceylonte labrus, or Ceylon wraffe.-Green, purpliint beneath, with blue head, and gill-covers variegated with
purple. This beantiou fint is a mative of Ceslon, wher rinaric it is teckoned edih'e.

Fisic.
Yoculatur, or Aoosing lónus-Gray, cinuled with jaculator. yellow; fue tranfierfe durisy bands; and lower jaw Jonger than the u-per. Darts water ou its prey, like the roltrated cheeodon and infdious fparts. Native of the Indian feas.

Scare laürus. Whitith, mixed with red; with tranf-/carus. verfe appendages on each tide of the tail. Native of the Mediterranean ; where it feeds primcipally on Suci, and fuims in thoals. It was in high enteen with the ancients as a food, end conifdered by the Romans as one of the principal delicacies of the table.

Barllan labrus, or ballan wraffe--Yellow, with ful-ballanus. vous frots, reilex lips, and ramentofe dorfal fin. Weighs about five pounds. Appears annually in great fhoals off Filev-bridge, ncar Scarborough.

Ancticat labrus, ancient arraff, or old wife. - Beak tinca. bent uewards; end of the tail cirenlar. Size and habit of a tench. Native of the European feas, and ufually found in deep waicrs, about rocky coalts. Liable to vary much in colcur.
Pcurakeet Ial'rus.-Green, with three longitudinal hitacured llipes con each tiae, and yellow dorfal fin marked lus. by a longitedinal red band. i beautiful fecies, which inhabits the American feas.

Biantifull lárus.- Reả, with longitudinal, intersupt-furmofuso ed, flexucus, blue freats; and fros ed yed with blue.
Jureella labrus.--Sides bluith, both mazhed by a lon-julis. gitudinal, fulrous, and dentated band. Length about eight inches, and iorn fomewhat lengthened. Occurs in thoals in the Mediterranean. The more ancient ichthyologits erroneoufly conflered it as poironous, and as the molt beautiful of the finny tribes.

## Gen. 21. Ophicephales.

Head coated with difinmilar fcales; body elongated.
Punclated oplicephalus.-DuREy, paler beneath, withpanctatus. the head pierced by pores, and the body fpeckled with black points. Length about ten inches. Frequents rivers and lakes in India; and is reckioned a dclicate and wholefome food.

Striated oshiceplalus.-DuRy, wit': the abjomen friatus. and fins latiated with dury and whitifa variegations. -Length abovt twelve inches. Native of India; inlabiting lakes, and equally etfeemed with the former as fool.

Gen. 22. Lonchurus.
Lanchurus.
Head fealy ; ventral fins feparate ; taillancociate.
Bearled lonchurus.--Ferruginous-brown; with fight-barbatus. ly lengthened nofe; two beards at the lower jaw; and the firf ray of the rentral fins elongated into a brifle. Length about twelve inches. Natise of Surinam.

Gen. 23. Sciena.
Scixna.
The whole head cowcred with fcales; fill-menibrane fix-rayed; a furcew on the back, in which the corfal fin is feated.
Mort of the feccies of this genus n:re exotic, and but obfcuely known.
Cirvehure

Thorac: Cirrliofe or biarded focena, has the upper jaw longer Fifhes.
cirrhofa. than the lower, and a beard on the latter. It has the habit of a carp, and neafores from one to two feet. Native of the Mediterranean. Was walucd by the Greeks and Romans as an article of food.
Sabrax.
Daffe fexena, or baffe. Perca labrax of Lin.-Subargentecus, with brown back, ycihoriih-red fins, and dufty tail. Habit of a falmon, Native of the Mediterranean and northern feas; frequently entering rivers. Known to the ancients by the names of labras and lirpus, and greatly prized, particularly by the Romans.

Rerca.

Jaws unequal, armed with flarp-pointed and incurved teeth ; gill-covers conlifing of three plates, of which the upperme? is ferrated; gill-membrane feven-rayed, the lateral line following the arch of the back; the feales hard and rough; fins fininy; and vent nearcr the tail than the head.
Common perch. The fecond dorfal fin with 16 rays, of a brown olive, fometimes accompanied by a flight gilded tinge on the fides, and commonly marked by five or fix broad, blackill, tranfeere bars. This well known fifh ufually meafures from ten inches to two feet, and weighs from two to four pounds, though fome have weighed eight, nine, or ten pounds. The perch inhabits clear rivers and lakes in molt parts of Europe, haurts deep holes in gently flowing rivers, fpawns early in fpring, is of a gregarious difpofition, very voracious, and fo tenacious of life, that it may be carried to the diftance of 60 miles in dry flraw, and yet furvive the joumey. It feeds on aquatic infects and the fnalier filhes, and is preyed on by the pike, eel, \&c. Its flelh is firm and delicate, and was held in repute at the tablic of the ancient Romans. In fome of the northern countries a fort of ifinglafs is prepared from the fkin.
Iucioperca. Sandre perch.-The fecond dorfal fin with 23 rays; of a larger fize, and more like a pike than the preceding. Native of clear rivers and lakes in the middle parts of Europe.
cornua.
pufflla.
niarina.

## Holocen-

trus.

Jogo.

Rulfe perch, or rugi:-Dorfal fin with 27 rays, of which 15 are finy. Length from fix to eight incles, and flape more flender than that of the common perch. Feeds on worms, infects, and young filhes, and is frequently preyed on by the pike, larger fifhec, and aquatic fowl. Spawns in March and Apri! ; inhabits clear rivers in many parts of Europe, efpecially towards the north; and afiords excellent food.

Sirall perch. Body ovate, compreffed, rough. Scarcely excceding the length of an inch and a half. Native of the Mediterranean.

Seaferch.-The dorfal fin with 15 fpiny ras:, and 14 fuit ones; the body variegated with dufly lincs. Colour red, markef with dadky tranfverfe lines on the fidee. Inhabits the Northern, Mediterranean, and Atlantic feas, and is in high elleem for the table.

## 25. Hozoc:extrys.

Whbit of the gemus perca; gill-covers fealy, ierrated, atd aculeated; fcales in molt fpecies, hard and rough. Sugo loljcenirus.-Silvery red, with longitudinal mellow lines on each fide. A highly beautisul focies,
about a foot in length. Native of the Mediterranean, Thoraci Indian and American $\{$ eas, and conidered as an excel- Futhes. lent filb for the table.

Spur-gillad holocentrus.--Subargenteous, with brown-calcarifi ith back, large teales, and fuurred gill-covers. Native of Japan.

Surinam holocentrus.-Brownith; with yellowimfurina. clouls, red head, and antevior gill covers ciliated with mem/is. fpines. Native of Surinam, where it is reckoned one of the belt filhes which the country produccs.

## 26. Bodianus

Eodianus.
Habit of the genus perca; gill-cove:s fcaly, ferrated and aculeated; fcales in moll fpecies fmooth.
Purple-backed bodiun.-Gold sellow, with purple bodianus back. Shape like that of a trout; length about 14 inches. Native of the South American leas.

Five fpined bodian.-Rofe-coloured, with filvery ab-pentacan domen, and dorfal tin yellow on the fore part. Native thus. of the Brafilian fens. Accounted good food.

Aya bodish.-Red, with filvery abdomen, fingle aya. fpined gill-covers, and lunated tail. This highly beautiful fpecies is faid to grow to the length of three feet. It is found in the Brafilian feas, and regarded as a delicacy.

Large fealed bodian.-Gray brown, with large round- macroleed fcales thenticulated at the edges. Length about apidotus. foot. Native of the Ealt Indies.

Spotied bodinn.-Olivaceous yellors, with blue fpots maculatu and reddith fins. Native of Japan.

Lonti bodian. Oblong lanceolate, with fmallith vio- louti. laceous 「pots, and fins edged with yellow. Native of the Arabian leas.
Palpebralbadian.-Somewhat ferruginous, with ochre-palpebracoloured eyes, protected by a moveable yellow valve.ius. Shape nearly that of a perch. Native of the feas about Amboyna.

Silvery bodian -Silvery, with bluifh back. Native argenteus of the Miediterranean.

Apua bodian.-Red, with the back fpotted, the body apua. fpeckled, and the fins edged with black. Native of the Brailian feas.

Guttrted bodian, jew-fifh, or jacob iverflen.- Yel-gutatus. loviifh broun, with body and fins marked by fmall ocellated decep broxn feots. Native of the Indian and Anerican leas. Eftcemed as an edible fifl.

Zebra liodian.- Yellowinh, with the tody marked by zebra. traniverle, and the head by longitudinal, brown bands. Native of Japan.

Rugaa bodian.-Blackilh rufefent, with black fins.rogaa. Nutive of the Arabian leas.

Lsnate: bodian.-Blackilh ferruginous, with black /unulatus finc, whitifh tranfarent towards the back part. Native of ti.e Arabian feas.

Black and white bodian.-Silvery, with irregular, melanole trenfverfe, black bands. Native of the Indian feas. cus. Sur-eyjed bodian.-Silvery, with yellowith back, and fellifer: orbits fpiny beneath. Native of the feas about the Cape of $G$ sod Hope.

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\text { Gei. } 27 \text {. G.lsterosteus. }
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Head oblong and fimooth, the jaws armed with fmall tecth; tongue flort and obtufe ; palate fmooth; eves monlerately fized, fertcely prominent, lateral ; gill-
intacic ma* 'irane fix $n$ : feven-rayed; gill-cover confiting frithes. twher. $0^{\prime}$ tw . .te, rounded and ftriated; body at the 1 . $\quad$ aid at both fides, and covered with hields, nockles before the dorlial fin; the back and ( .... ine parallel and traight ; the rentral fans enind the pectoral, but above the Rermum.
Conmonn Rizlduack, bayfickle, farpling, \&c. with three fipies on the back. Length two inches, or three at molt. In the carly part of lummer, the gills and abdomen are of a bright red, the back a fine olive green, and the liden filvery. Lives only two or three years, is very acive and very voracious, devouring the young and fpawn of other filhes. worms, infects, and their larve. The ffronger iulabitants of the waters fhun it on account of its fpincs; but it is infefted by inteftinal worms. In April and May it depofits its fpawn in fmall quantities on aņuatic plants, elpecially on the white and yellow water lily. It occurs very commonly in ponds, rivers, and mizrihes, and in fome parts, as about Dantzic and the fens of Lincolnflire in extreme profufion. At Spalding, according to Mr Pennant, they appear in the Welland once in feven or tight years in fuch amazing fhoals that they are ufed as manure, and a man has got for a confiderable time four fhillings a day by felling them at the rate of a halfpemy per buthel.

Skipping ficklcback.- Light dorfal fpines connected by a membrane. Native of the feas about Carolina, where it is often obferved flkipping out of the water.

Smaller or ten-finted Aickleback.-Ten dorfal fpines. The number of fipines is foretimes only nine, and fometimes, though rarely, eleven. This is fmaller than the common fpecies, feldom exceeding an inch and three quarters. It is found both in feas and lakes, and enters the mouths of rivers in fpring.

Fificen-Jpined fickleback. Fifteen dor\{al fpines. From five to feven inches long, of a llender form, with the head produced, and formershat tubular. Freque:ts thal.. low places in the European feas, and preys on marine infects, and the fpawn and fry of other filher.
Minute Jickleback.-Four ferrulated fines at the hind part of the head ; the lateral ones as long as the abdomen. Native of India.

To the fame genus belong japonicus, carolinus, canadus.

## Gen. 28. Sconder.

Head compreffed and fmooth ; gill-membrane fevenrayed ; body finooth, the lateal line carinated beliind, often fpurious f.ns towards the tail.

> * Spinsus fnlets aifining.

Common mackel.-With five finlets. Its ordinary length is from 12 to 16 inches, though it has fometimes been found of a much greater fize. Its elegant fhape and the beauty of its colouring are too well known to require particular defcription, and its qualities as an edible fition have been loirg duly appreciaied. It dies very foon acer it is taken out of the water, eexhibits for a thort time a phofphoric light, and partly lofes the brilliancy of its hues. It is very roracious, and makes grea: havock among the thoals of herrings. It dwells in the European and American feas, chiefly affecting the regions within the Aretic circle, and appearing at
ftated feafons about particular ranges of coait. Its al- Tharanic leged migrations, like thofe of the herring, begin to be queftioned by fome acute obfervers, and it is more probable that it refides at the bottom of the waters during winter at no great difance from the places where it vifibly abounds in fummer. A film grows over its cye in winter, when it probably conceals ittelt in muddy bottoms, and becomes torpid. It is very prolific, and depolits its fpawn among the rocks about the montio of June. The tendernefs of its leth renders it unft for carriage in a frefh ftate; but in Cornwall, and feveral parts of the continent, it is prelerved by falting and pickling. Caviar is prepared from the roes on the coalts of the Mediterrancan; and the celebrated garum of the Romans is faid to have been a condiment prepared from this filh.

Coly mackrel.-Bright green and azure. Somewhat colias. fmaller than the preceding, which it very much refcmbles. Found on the coatts of Sardinia.

Bonito mackrel.-Seven inferior finlets: body mark-pelamis. ed on each fide by four black lines. Relembles the tunny, but is more flender. Freque:3ts the Atlantic and tropical feas, perfecuting flying filhes and other fpecies, and tormented in turn by internal worms.

Tunny.- Eight finlets above and below. Ufual length thynnus. about two feet, but fometimes grows to eight, or even ten. The upper part of the body is of a dulky blue, and the abdomen filvery. The tunny is gregarious, and inhabits the Mediterranean, Northern, Indian, and American feas, preying with fiercenefs on all kinds of fmaller fifh, and perfecuting the mackrel and flying fifh. The Greens and Romans admired its tleth, thoug $h_{1}$ rather coarfe, and eftablifhed their tanny-fifheries on various parts of the Mediterranean coalt, where this fuecies is ftill taken in great quantities. The fmaller fithes are chichly lold freh, and the larger cut in pieces and folted.

* Spurious finlets conuate.

Scad or Horfe mackrel.-Dorfal fin recumbent, la-trachurus. teral line marked. Length from 12 to 18 inches. Native of the European feas, and nearly equal to the common kind in point of flavour.

W'e forbear to enumerate feveral other fpecies which liave been recently defined, but whofe hiitor: is ftill very incomplete, and fiall terminate this abridged account of the genus by the

Pilot unacirel, or piloi fib; gaferofens ductor of auctor: Jinnous. Silvery blueilh, with fous tranfverfe blue bands; four dorfal pines, and tail barred witin black. Length about 18 inches; general flape that of the tunny, but the head much fhorter. Inhabits the American and Indian feas, and has its name from often fwimming near or before fharts, which, it is faid, it guides to its prey.

Gen. 29. Cmprogaster.
Centrogaw Qer.
Head comprefied, frooth; gill-membrane generally feven-rayed; body deprelled and froooth; fins Spiny; ventral fins united by a membrane, which is furnillhed with four acute fines and ti: foft rays.

Brownifb centrogafer:-Brownilh, whitilh beneail ; fufcefons. tail fomewhat forked. Native of the Japanefe feas.

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dys.
cquisia.


MYulus.

Siteriy centrogafur.-Siivery, with a large brown font on the nape, and a blackili one on the dorfal fin. Natire of the Iapanefe leas.

Sharibd centregafer. - Finlets and dorfal fin connate. Ninive the Arabian feas.

Rhogi. ic contrognfer.一Ventral Ens one-rayed. Native of the Red fea.
barbatus.
Head comprefled, floping, covered with fcales; eyes oblong, approximated, and vertical, with a nictitating membrane ; notrils fmall and double; jaws and palate rough, with very fmall teeth; tongue fhort, narrow, fmooth and motionlefs; gill-membrane threerayed; gill covers confifting of three finely friated plates; the aperture rioderate ; body round, elongated, rod, with large and deciduous icales.
Red furmullet-Two cirrhi; the body red. Length from 12 to 15 inches; culour a fine rofe-red, with an olive tinge on the back, and a filvery hue towards the abdomen. It is found in the Mediterranean and northein feas, is very ltrong and active, and feeds principally on fmaller fines, worms, and infects. The Roman epicures expended large fums in purchafing this fifh for their tables; contemplated, with inhuman pleafure, the changes of its colours, during its flow expiration; and feafted on it with delight, when it was dreffed with rare and coftly fauces.
Striped furmullet-Two cirrni, and light-yellow lon-

Trigla. gitudinal lines. Nearly refembling the preceding, and enually delicate as a food. Inhabits the Mediterranean, and is fometimes found in the Atlantic.
'i'he other rpecies are japonicus, aurifamma, indi- $^{\text {a }}$ rus, bandi, zitatur, trifafciatus, lifafciatus, maculatus, aurcovittatus, and imberbis.

Head large, mailed, with rough lines; eyes large, round, and placed near the top of the head; gape wide, palate and jaws fet with acute teeth; noffrils double; gill-aperture large; cover confilting of one radiated aculeated plate; gill-membrane feven-rayed; body covered with froall fcales; back ftraight, with a longitudinal furrow, fpiny on both fides; lateral line near tlre back, Itraight, belly thick; ventral and pectoral fins large; at each of the latter free and articulated finger-ftraped proceffes.
cataphrac- Mailec! gurnard.-Double fingers, fnout forked, and
syra. tive of the Mediterranean.

Piper gurnard--'Triple fingers; noftrils tubular; length from one to two feet; bright rofe-red, filvery beneath. Native of the European feas; confidered as an excellent fifh for the table.
gurnardus Gray gurnard--Triple fingers; back marled with black and red fots; length of the preceding. Native of the European feas, and not uncommon about our own coafts. Feeds on teltaceous and cruffaceous animals, frawns in May and Junc, and is good eating.
Rirundo.
Tub.ffl., or fapphirine gurnard.-Triple fingers, lateral line aculeated. Size of the gray gumard. Native of the European feas. Occafionally frings out of the water to fome diftance.

Fhing surnard.-Sextuple fingers, connected by a Abdimna membrane. A highly fingular and beautiful fpccies, Fimes. winich inhabits the Mediterranean, Atlantic, and Indian leas, where it fwims in moals, and frequently tlies volitans. out ot the water to a confiderable diftance.

The carolina, alata, minu!a, cavilone, pimelate, adriatica, piri, cliabrontera, cuculus, lucerna, limeata, afinticis, and evolans, allo belong to this genus.

## Gen. 32. Trachichthys.

Trachint.
Head rounded in front; eye large; mouth wide, footh- thys. lefs, defcending ; gill-membrane furn:fired with eight zays, of which the four lowermoft are rough on the edges; fcales rough; abdomen mailed with large carinated fcales.
Southern trachichthys.-Mailed abdomen. The whole anfralis. of this curious filh is ftrongly coated, and of a bright pink ferruginous colour. It is a native of the coalls of New Holland, and is minutely de cribed by Dr Shaw, in his Naturalifts Mifcellany, and in the fourth volume of his General Zoology ; a work from which we have derived much affiftance in the compilement of the prefent article.

## IV. ABDOMINAL.

The filmes of this order have the ventral fituated belind the pectoral fins, or on the abdomen. They are monlly inhabitants of the freil waters.

## Gen. I. Cobitis.

Cobitis.
Head fmall, oblong, and fcalelefs; eye in the upper part of the head; nape flat; gill-membrane from four to fix-rayed; gill-covers formed of a fingle plate, fhutting clofe below; body covered with mucus and fmall deciduous fcales, and variegated with bands and fpots, almof equal; the tail towards the caudal fin being a little narrowed; back ftraight; with a fingle fin ; lateral line farcely vifible; vent near the tail, and the tail rounded.

Common, or bearded loche.-Six beards; head fmooth, barbatula. and comprefled. About three inches in length; mouth finall, toothlefs, and placed beneath. Common in clear rivulets in many parts of Europe. Lives on aquatic infects, worms, \&c. Spawns in fpring, is very prolific, dies very foon after being taken out of the water, and even where placed for any length of time in fill water. It is very delicate eating, but quickly iofes its fine flavour.

Spiny loche, or the armed loche.-Six beards, a frine tcenia. below the eyes. Refembles the preceding, and is found in various parts of Europe, concealing itfelf below ftones, feeding on worms, aquatic infects, and the fyawn and fry of fiftes. It is about five inches long, is tenacious of life, utters a hiffing found when handled, and is feldom eaten by man.

Great luche.-Eight beards; a fpine above the eye. fofilis. The largett of the genus, inhabiting large lakes, and marthes in the midland countries of Europe. Reftlefs on the approach of ftomy weather.

The other known \{pecies are hcteroclita and ja. ponica.

Head fomenhat depreffed; mouth torminal; tecth fmall, and placed on the jars; eyes protuberant, with double pupils; gill-niembranc fix-rayed.
Four $\cdot$ eyed anableps. Colitis analleps of Linnæus.Yellowilh.gray, with longitudinal black lines on each fide. Length from fix to eight or ten inches. Its general appearance like that of a loche; but its eyes Liffer from thofe of every known fifh, each being apparently divided into two difinct eyes, united in a common receptacle; on diffection, however, this obfervation is found to apply only to the anterior half of the organ. This fifl is a native of South America, principally frequenting the rivers of Surinam, near the fa-coafts.

## Gen. 3. Amin.

Head bony, naked, rough, and furnihed with futures; teeth acute, and clofe in the jaws and palate; two beards at the nofe; gill-membrane twelve-rayed; body fcaly.

Carolinian arria.-With a black fpot at the tail; fmall, of a roundilh form, and feldom eaten. Inhabits Carolina.

## Gen. 4. Silurus.

Head naked, large, broad, and compreffed; mouth furnifhed with beards; gape and throat wide; lips thick; jaws dentated; tongue thick, fmooth, and very fhort; eyes fmall; gill-membrane furnifhed with from four to fixteen rays; body elongated, compreffed, fcalelefs, covered with vifcid nlime; lateral line near the back; the firlt ray of the pectoral fins, or of the dorfal fin, fpiny, and dentated backward.

Sly, or European filurus.- One foft dorfal fin; fix beards. Grow's to the length of eight, ten, or even fifteen feet, and to the weight of three hundred pounds; but its ordinary fize is from two to three or four feet. It is fluggifh, and ufually lies half imbedded in the foft bottoms of the rivers which it frequents, with its mouth half-open, moving about its beards, which the fmaller filhes millaking for worms, lay hold of, and are entrapped. It inhabits the larger rivers of Europe, as well as fome parts of Alia and Africa, but is in no high eftimation as a food.
lectricus. Electric filurus.- With one adipofe dorfal fin, and fix beards. Ahout twenty inches long, very broad in the fore-part, depreffed, and of a cineresus colour, with fome blackifh fpots towards the tail. Is found in fome rivers in Africa, and when truck, gives a galvanic fhock, thongh not fo 1trong as that from the torpedo and gynmotus. It is ufed as food.

Afcitic filurus.-Brown, aft-coloured beneath, with beards longer than the body; forked tail, and elcven . rays in the anal fin. 'The young of this fpecies are excluded in the form of large ova, the integuments of which they foon break, but adhere to the parent till the yolk is confumed. Naive of India.

Cat filarus.-'f he hinder dorfet fin adipofe; twenty rave in the anal ha, and cight Learsis. Inhabits the fea and iivers of North Ameria, preving on all hinds of fralir tifnes and not fpaing even tho'c of its own Vol. Xl. Part I.
kind. 'Taftes like an cel, and is much relihed by the Ahduminal Americans.

Fïhres.
The other fpecics are denominated militaris, bagre, hertwbergit, incrmis, galeatus, nodofus, bimaculatus, "fofciatus, clarias. quadrimaculatur, erythropterus, batrachus, folfilis, vituatus, atherinoides, afotus, mystus, anguillaris, undecimalir, cornutus, felis, cous, carinatus, docmac, chilenfis, and bajad.

> Gen. 5. Platystacus.

Platyfacus, ${ }^{\text {o }}$
Habit of filurus; moutl beneath, bearded with cirrhi; body fcalelets, depreffed; tail long, compreffed.
Acctabulated platystacus. Silurus afpredo of Linnæus. cotyleplooGrows to the length of a foot or more, has a very un-rus. couth appearance, and is remarkable for the many finall acetabular proceffes, or fuckers, with which the body is befet. Native of the Indian feas and rivers.

Smooth platystacus.-Eight beards, and plain abdo-lavus. men. Very like the preceding, but wants the abdo. minal fuckers.

Warted platystacus.-Brown, marked above by lon-verrucogitudinal warted lines, with thort anal fin. Smaller, fuc. and lefs elongated than the two preceding. Native of the Indian feas.

Eel-phaped platystacus.-Brown, with longitudinal anguilla. white flripes, and the fecond dorfal, anal, and caudal ris. fin united. Length twelve or fifteen inches. Native of the Indian feas.

## Gen. 6. Loricaria.

Loricaria.
Head fmooth, depreffed; mouth without teeth, and retractile; gill-membrane lix-rayed; body covered with a hard cruft.
Ribbed loricaria. Silurus coflatus of Linnæus.-Yel.coflatas lowihh brown, mailed with a fingle row of thields on each fide ; tail forked. This is a fpecies of great ftrength and boldnefs, which inflicts very painful and dangerous wounds with its fpines. It is a native of the Indian and American feas.

Armed loricaria.-One dorfal fin, two beards; length cataabout ten or twelve inches. Much allied to the pre-pbracia. ceding, but has a rounded tail. Native of the American feas.

Soldier loricaria. Silurus callichthys of Linnæus.- callich. Brown; with depreffed rounded head, double row of $t$ hys. fcales on each fide, and rounded tail. Native of South America, where it is in confiderable efteem as a food.

Speckled loricaria.-Yellow, with brownifh back; punclata. double row of fcales on each fide; fins fpeckled with black; and forked tail. Only five or fix inches long, but very elegant. Native of the rivers of Surinam.

Toothed loricaria.-Lengthened; yellowilh brown; dentata. with toothed, bearded mouth, and nightly pointed finout. Native of the Indian feas.

Tellowlaricaria. Loricaria plecofornus of Linnæus.-flava. Yellow, fpotted with brown; two dorfal fins; and tail marked by tranfverfe bands. Native of the Indian feas.
Gen. 7. Salmo.

Salmo.
Head fmooth and compreffed; mouth large; lips fmall; tongue white, cartilaginous, and morcable; eyes middle-fized; lateral teeth in the jaws and tongue; gill-micmbrane furnifhed with four to ten ray"; gillN cover
cover conniting of three plates; body elongated, covered with round fcales minutely ftriated; back fraight; lateral line flraight, and near the back; hinder dor $\{a]$ fin adipofe; ventral fins many-rayed.
Moft of the fifhes of this genus frequent pure and rapid Itreams, a few of them inhabit the fea, but enter rivers for the purpofe of depofiting their fparwn in frring, and return to the fea in autumn. They feed on infects and other fifhes, and their flefl is much relifhed as a food. We flall confine our notices to a few of the moft important and remarkable fpecie.

Common falmon.-The upper jaw projecting beyond the under. The general length of the falmon is from two and a half to three feet; but is faid to be fometimes found the length of fix feet, and MIr Pennant mentions one of 74 pounds weight as the largeft he ever lieard of. The general colour of both fexes is a filvery gray, of a much darker calt on the back; the fides of the male are marked with many fmall, dutly and cop-per-coloured wots, while the markings on the fermale are larger, more difta:nt, and roundifh, orlunated. The male is alfo of a more flender form than the female. This filh, whicl is fo highly efteemed for the delicacy of its flavour, and which forms fuch an important article of commerce, cccurs chiefly in the falt and frefl waters of the northern regions, being unknown in the Mediterranean and other wa:m climates; but frequenting fome of the rivers in France, which empty themfelves into the ocean, and being found as far north as Greenland and the northern parts of North America. It quits the lea at certain periods to depofit its fpawn in the gravelly Leds of rivers, often afcending to a great diflance from their mouths, forcing itfelf againt the moff rapid ftreams, and leaping with furprifing agility over cataracts of a confiderable height. On the river Liffey, the falmon are often obferved to fall back before they furmount the cataraft, which is 19 fett high; and bafkets are placed near the edge of the fream to catch them in their fall. At the falls of Kilmorack in Scotland, where the falmon are tery numerous, the country people are accuflomed to lay branches of trees on the edge of the recks, and thus intercept fuch of the fifh as uiifs their leap. Alongfide one of thefe falls the late Lord Lovat ordered a kettle full of water to be placed over a fire, and many minutes had not elapfed before a large falmon made a falle leap and fell into it. When the falmon cuter the frefh water in winter, they are more or lefs infefted with the falmon-loufe, (Lernsa falmonea Lin.) and are then reckoned to be in high feafon. Thefe infects, however, foon die and drop off, and the filh becomes lean at fpawning time. The male and female unite in forming a receptacle in the fand or gravel, about 18 inches deep, for the ova, and having covered up the latter, which are not hatched till the enfuing firing, haften to the falt water much emaciated, and foon recover their plumpnefs. The fry appear about the end of March, and are five or fix inches in length, in the beginning of May, when they are called falmon finelts or firouts. The firft food fisceps them in immenfe fwarms into the fea. About the middle of June, the large? of thele begin to return into the rivers. Towards the end of Jus, they are called gilfe, and weigh from fix to nine ounds. Their food is other fill, infects, and worms; but as no food is found in their ftomach during
fpawning time, it is probable that they neglect it during At dominal that feafon. The fifhing feafon commences in the Tweed on the 3 oth of November", and ends about old Michael. mas day. A particular account of this filhery occursin the third volume of Pennant's Britifh Zoology, to which we beg leave to refer our readers.-" A perfon of the name of Graham (fays Mr Bingley), who farms the feacoalf filhery at Whitehaven, has adopted a fuccefful mode of taking falmon, which the has appropriately denominated falmon-hunting. When the tide is out, and and the filh are left in fhallow waters, intercepted by fand banks, near the mouth of the river; or when they are found in any inlets up the fhore, where the water is not more than from one foot to four feet in depth, the place where they lie is to be difcovered by their agitation of the pool. This man, armed with a three-pointed barbed lipear, with a hiaft of 15 feet in length, mounts his horfe, and plunges, at a fwift trot, or moderate gallop, belly deep, into the water. He makes ready his fpear with both hands; when he overtakes the falmon, he lets go one hand, and with the other ftrikes the fpear, with almolt unerring aim, into the fifh : this done, by a turn of the hand he raifes the falmon to the furface of the water, turns his horfe head to the llore, and runs the falmon on dry land without difnounting. This mán fays, that by the prefent mode he can kill from $4^{3}$ to 50 in a day: ten are however no defpicable day's work for a man and horfe. His father was probably the firf man that ever adopted this method of killing falmon on horfeback."-In the inteftinal canal of falmon is often found a fpecies of ternia, about three feet in length; and Dr Bloch mentions, that in a feecimen which had been three weeks dead, he found oue of thefe worms Rill living.

Gray falmon, or gray. - With afh-coloured fpots, the erio.ice extreme part of the tail equal. Weighs from 13 to 20 pounds. The head is larger in proportion than in the preceding fecies ; it is a flrong filh, and does not afcend the frelh water tillAuguft, when it rulhes up with great violence, and is feldom taken.

Salmon trout, fea trout, or bull trout.-Marked with trulta. black ocellated fpots, the niddle brownifh, fir dots on the pectoral fins. The general appearance very like the common falmon, but feldom equal to it in fize. Like the falmon, it inlabits the European feas, pafling into rivers to depofit its fpawn. Its flefh, too, is of equal delicacy. The vicid mucus which covers the fkin poffeffes the quality of exhibiting phofphoric light.

Common trout. -With red fpots, the lower jaw ra-fario. ther longer than the upper, The general length of this fuecies is from 12 to 15 or 16 inches; the ground colour yellowith gray, darker on the back, and marked on the fides by feveral flragoling, round, bright-red fpots, each furrounded by a tinge of pale blue gray. The colouring however, is fubject to confiderable variety. The trout is a common inhabitant of European ffreams and lakes, preferring thofe that are clear and cold, living on worms, frmall fifhes, and aquatic infects and their larvx. Like the falmon, it occafionally fprings over obflacles in its courfe. It ufually fpawns in September, or October. Thofe which are in mof requent for the table, are natives of the cleareft waters.- The gillaroo trouts which are found in the lakes of Galway, in Ireland, are not Specifically different from the common, but their ftomachs acquire an extraordinary de-

Abdominal gree of thicknefs and naufcular force, a citcumflance Fimes. which is afcribed to theis living much on thell-filh, and frallowing finall ftones.

Hucho felmon.-Oblong, two rows of teeth in the palate, marked with flightly blackifh foots. More ilender thaped than the common falmon, and its theis not fo firm. Inhabits the Danube, the Bavarian and Aufrian lakes, and the rivers of Ruffia and Siberia.

Aipine trout, or charr.-Back black, fides bluith, belly redaifh yellow. Length about a foot, In great reque? for the table. Native of the Alpine lakes and rivers, as well as of thole of Germany, Lapland, Sweden, \&sc. Fotad in fome of the lakes of Cumberland and Wefteroreland, Loch-Leven in Scotland, \&c.

Sakelin trout, or rel charr.-A bout a foot in length, the upper jars longeff. Inhabits nearly the fame regions as the preceding, and is equally efteemed for the oelicacy of its favour.
erlanus. Simelh falmon, or finelt; fpirling or fparling of the Scotch.-Head tranfparent, it rays in the anal fin. Ot an eiegant, tapering form, and of a very peculiar flavoar, which fome compare to ruthes, others tu violets, and others to cucumbers. It varics in length, from fix to 12 inches, inbabits the feas of Europe, and afcends rivers for the purpofe of foarning, early in fpring. In the Thames and the Dce, however, they are taken in great quantities in Norember, December, and January. There is a fmaller variety which abounds in the north of Europe.

Gwiniad falmon, or grviniad. - The upper jaw longeft, 14 rays in the doral fin. Refembles a trout, but is thicker in proportion. Inhabits the lakes of the Alpine parts of Euroje, and thofe of Cumberland, Wales, and Ireland. It occurs alfo in Loch Lomond, in Scotland, where it is called pozean. A filherman at Ullswater is faid to hare taken between feven and eight thoufand of this fpecies at one draught. Its uffual length is from ten to twelve inche. According to Dr Bloch, the gwiniad alio inhabits the northern fea, and the Baltic.

Maranula falmon.-Jaws without teeth, the under one longeit. Length about fix inches; fhape like that of a trout, but more ilender. Native of feveral of the European lakes, and much elieem das food. At Lochmaben, the only place in Scotland where it occurs, it is called iuvangis. According to trádition, it was brought to Lochmaben, from England, in the time of Robert Bruce.
ymallus. Grayling falmon, or grayling. - Upper jow the longeft, 23 rays in the dorlal fin. About the length of 18 inches. Frequents the clearer and colder rivers in many parts of Europe and Afia, particularly thofe which flow through mountainous countries. It is an elegant feecies, voracious, and of quick growth; fpawns in April and May ; has white, firm, and fine flavoured fleih, and is confidered to be in higheft feafon in tlo middle of winter.

To this genus allo belong lenok, nelina, taifnen, erythrinus, plinoc, falmulus, Jchieffermuilleri, gadeniu, falmarinus, carpio, lepcchini, lacufris, umbla, argentinus, arcticus, Aagnalis, rivalis, froemii, Sourus, (umbil, fatens, grenlandicus, donuex, gibbofus, notatus, binactluuss, immaculatus, cuprinoides, niloricus, crgyptius, pulvertlentus, amafomur, rhoml cus, gaficropelecus, falcaius, fafcia!us, friderici, unimaculatus, nelanurus, ful.
surs, migratorius, autumnalis, wartmami, roffratus, Atdominal nafus, marcena, pelcd, pinffchan, mudfchan, ychokur, Filhes. miül'cri, simba, oxyrlincluss, leucichtilys, and cdentulus.

## Gen. 8. Acanthonotus.

Acantho. nutus.
Body elongated, without dorfal fin. Several fpines on the back and abdomen.
Snomted acanthonotus.-Gray, with the back tranf-nafus. verfely larred with brown. The only known fpecies of this genus. The fpecimen defrribed by Blocl meafured two fect and a lialf. Native of the Indian feas.

## Gen. 9. Fistularia.

Fifularia
Stout cylindrical, with jaws at the apex ; gill membrane feven-raved.
Slender ffifularia, or tobacco-pipe fifb.-Tail bifid and tabacaria. fetiferous. Length three or four feet, flape refemisling that of an eel ; the head about nine inches long, from the eyes to the tip of the month. From the middle of the furcature of the tail, proceeds a wery long ant hickifh brittle, like whalebone, which gradually tapers to a very fine point. The fpine of this fingular fifin is alfo of a very peculiar ftructure, the firft vertebra beng of immoderate length, the threc next much thorter, and the reft gradually decreafing as they approach the tail. It inferts its long fnout into the hollous of rocks, under ftones, \&ic. to lay hold on the fmaller finhes, worms, and fea infects on which it chiefly feeds. Iuhabits America and Jatan, and is edible.
Chinefe ffularia, or chinefe trumpet firn.-Simple chinenfis. rounded tail. Body thicker in proporion that in the preceding fpecies. Native of the Indian cen, though its foffil impreffions lave been fornd under the volcanic Iftrata of Alozte Bukr, niear Verona.
Paradoxical fifularia.-Finely reticulated, with paradosa, fightly prominent lines, and lanceolate tail. Length from two to four inches, body angula, and the whole fith bearing a clofe relemblance to a Syngnathus. Native of the Indian feas.

> Gen. 10. Esox.

Head fomewhat llat above; mouth and gullet wide; jaws dentated, unequal; the upper plane, under functured; tongue broad and loofe; palate [nooth; eyes round, middle lized, and lateral; noffrils double; near the eyes rays; body elongated, covered with hard fcales, convex above, comprelled at the fides; lateral line Praight, neareft the back, fcarcely confyicuous; dorfal and anal fins very fhort and oppofite.

Sea-pike, or fpit-fih,-Two dorfal fins, the anterior /phyrana: fpiny. Of a filvery bluif colour, dufky on the back, and flightly tinged with yellow on the head and about the gills. Grows to the length of wearly two feet. Inlabits the Mediterranean and Atlantic; and has fomerwhat the flavour of the cod.

Bomy ficaled pile, - Upper jaw the longeft, fcales bony. This int character gives it a very fingular appearance. It attains to the length of three to four feet, inhabit: the American lakes and rivers, is very voracious, and is an excellent fith for the table.

Common pike or pickerel.-Snout depreffed, and rearly iusius: equal. Head very flat; the teeth very tharp and numerous, being difpofed not only in front of the uppor

A'dor.i.al jaw, but in both fices of the loser, in the roof of the Finie. mouth, and ofien on the tongue, amounting to at lealt 7c0. The ordinary colonr of this fill is pale olive gray, deepeft on the back, and marked on the fides by feveral yellowinh fpots; the abdomen is white, flightly fpotted with black. According to Pennant, the largeft fpecimen of Englifl growth weighed 35 pounds. Thofe of Lapland fometimes meafure eight feet. It is a proverbially voracious fpecies. "We have known one, (fays Mr Pennant), that was choaked by attempting to fwallow one of its own \{pecies that proved too large a morfel. Yet its jaws are very loofely comnected, and have on each fide an additional bone like the jaw of a vipcr, which renders them capable of greater diftenfion when it fwallows its prey. It does not corifine itfelf to feed on filh and frogs; it will devour the water rat, and draw down the young ducks as they are fwimming about. In a manulcript note, which we found, p. 244, of our copy of Plott's Hifiory of Stafford/bire, is the following extraordinary fact: "At Lord Gower's canal at Trentiatn, a pike feized the head of a fwan as the was feeding under water, and gorged fo much of it as killed them both. The fervants perceiving the fwan with its head under water for a longer time than ufual, took the boat, and found both fwan and pike dead."-The fmaller fifhes manifelt the fame uneafinefs and horror at the prefence of the pike, as little birds at the fight of the hawk or owl. If we may credit fome naturalifts of name, the longerity of the pike is not lefs remarkable than its voracity. Rzabzyndki, in his Natural Hifiory of Poland, tells us of one that was 90 years old ; but Gefner relates, that in the year 1497, one was taken near Hailburn, in Swabia, with a brazen ring affixed to it, on which were thefe words in Greek characters: "I am the fifl which was firf of all put into this lake by the hands of the Governor of the Univerfe, Frederick the Second, the 5th of October
belone. 1230. ." The pike fpawns in March and $\Lambda$ pril, and is faid to be of very quick growth.

Gar-pike, gar-fifh, or horn fifb.-Both jaws fubulated. General length from two to three feet, the body liender, and the belly flat. The back is of a very fine green, beneath which is a rich changeable blue and farpie caft, while the fides and belly are of a bright filver colour. The jaw's are very long and flender, and the edges of both are armed with numerous fhort Alender teeth. Native of the Enropean feas, arriving in fhoals on the Britifh coalts, preceding the mackrel. The fpine and bones acquire a green colour by boiling, notwithflanding which it is eaten with perfect fafety.

The other fpecies are larracuda, vulpes, malakaricus, (ynodus, hepfetus, al genteus, gymnocephalus, brafihienfis, chirocentrus, chinenfis, aureoviridis, becuna, fouPolypterus. rus, cepedianus, chilenfis, viridis, and formias.

## Gen. 11. Polypterus.

siloticus. Gill-membrane fingle-rayed ; dorfal fins numerous.
Nilotic polypterus.-Green, with the abdomen Spotted with black. Of a long and ferpentine fhape, the body being nearly cylindrical, and covered with ftrong and adhering fcales. The pectoral and wentral fins are attached by a fcaly bafe; and the dorfal, to the number of 16,17 , or 28 , and of an ovate fhape, run along the whole length of the back. Native of :he Nile, and
one of the beft fithes whiclz that river produces, but dbduminal very rare. The Egyptians call it bichir.
Gen. 12. Elops.

Head fmooth; numerous fmall teeth in the margin of the jaw and in the palate; gill-membrane with 30 rays, and armed in the middle externally with five teeth.
Saury clops, great faury, fein-ffib, or fea gally-wafp. faurus.
-The tail armed above and below with a fine. About 14 inches long, and has fome refemblance to a falmon, but wants the adipofe fin. Native of the American feas.

## Gen. i3. Argentina.

Argentiaa,
Teeth in the jaws and tongue; gill-membrane eightrayed; vent near the tail ; ventral fins with many rays.
Pearl-bladdered argentine.-Anal fin nine-rayed. A/pbyrana. fmall brilliant filh, inhabiting the Mediterranean, and affording, by its air-bladder and fcales, fome of the beft kind of filvery matter ufed in the preparation of artificial pearls.

The other fpecies are glofodonta, carolima, and machnata.

## Gen. i4. Atherisa.

Atherine.
The upper jaw fomewhat flat ; gill-membrane fix-rayed, a filvery flripe along the fide.
Mediterranean atherine.-About 12 rays in the anal befferus. fin. An elegant fpecies, of the length of fis or feven inches, and flaped like a fmelt. Native of the Mediterranean and Red feas. Alfo found on the coalt of Southampton, where they are often called by the name of finelts.

To the fame genus belong menidia, fihaina, japonica, brofonii, and pinguis.

## Gen. 15. Mugil.

MugiL
Lips membranaceons, the under one carinated within; no teeth, but a denticle above the opening of the mouth; gill-membrane 7 -rayed; gill-covers fmooth, rounded ; body whitih.
Mullet, or common mullet.-Five rays in the firf dorfal fin.-Length from 12 to 16 inches; colour bluifh gray, darker on the back, and filvery on the abdomen. Very common in the Mediterranean and northern feas, chiehy haunting the fhallows near the thores, and feeding on marine worms, infects, and plants. It likerife occurs in the Indian and Atlantic oceans. In the fpring and early fummer months, it afcends rivers. The roe is often prepared into an inferior kind of caviar, called botargo; and the filh itfelf, though not faThionable in our orm country, is reckoned excellent for the table. In plentiful fealons, it is dried and falted.

The other fpecies are crenilabis, albula, malabaricus, tang, plumieri, carruleomaculatus, clilenfs, and chanos.

## Gen. 16. Exocoetus.

Exococtuy
Head fcaly, no teeth ; jaws convex on both fides; gillnembrane ten-rayed; body whitilh, belly angulated ; pectoral fins very long, adapted to tlying; the rays carinated before,
bd.minal Ocennic fyling ffis.-Abdomen carinated on both Fifhes. Fides. Of a bright filver colour, gradually deepening into purplifh brown on the back; the pectoral fins dutky, the dorfal and anal yellowith, and the ventral fins and tail redilifh. It is a native of the American and Indian feas, but is occeffonally obferved in the Mediterranean ; and Pennant mentions an inflance of its being feen about the Britill coalts. The largenefs of the air-bladder, and the peculiar ftruture of the mouth, which can be clofed while the jaws are open, affirt its power of flight.
Mediterranean fying:-6/b.-The ventral fins reacling to the tail. The general length of this fpecies is from 12 to 15 or 16 inches; and its general fhape is not unlike that of a herring, to which it is alfo compared as an eatable fin. It is of a bright filvery caft, with a blue or duiky tinge on the upper part. It is frequent. 1y obferved in the Mediterranean and Atlantic, fometimes fingly, and fometimes in fhoals. During the decline of its fight, it fometimes falls into thips; the height, however, at which it generally exercifes its fight, is about three feet above the furface of the water. From the length and fize of the pectoral fins, it is enabled to continue this motion through the air to the dittance of 200 or 300 feet, when the fins becoming dry, it is again obliged to have recourfe to the water. Here it is perfecuted by the dorado, bonito, dolphin, and other predacious fifhes, while, in its aerial career, it is equally haraffed by the gull and the albatrofs.

American flying:fflb.-Silvery bluith, with the ventral fins fituated on the middle of the abdomen. Native of the Atlantic ocean.

Commerforian fying-fik.-With a dark blue fpot on the dorfal fin, Native of the Indian feas.

## Gen. 17. Polymenus.

Head compreffed and fcaly; fnout very obtufe and prominent; gill-membrane with five or feven rays, feparate finger-like procefles at the pectoral fins.
Paradife polyneme, the fib of Paradife, or mango-fi/b.-Seven fingers, and forked tail. Grows to the length of about 12 or 15 inches, and the thoracic filaments are very long, the outer ones often extending beyond the tail, and the others gradually fhortening. It inhabits the Indian feas, and is reckoned by much the moit delicate fin at Calcutta.

Plebeian polyneme.-Five fingers, the firt reaching beyond the vent, the others gradually fhozter. Refermbles a mullet, except that the head is much blunted. It fometimes meafures upwards of four feet, is a native of the Indian and American feas, and is comidered as an excellent $\mathbf{4}$ h for the table.

Quinquarius, niloticus, decadactylus, indicus, tetradactylus, virginicus, commerfanii, and plumieri, compofe the reft of the genus.

## Gen. 18. Clupea.

Head compreffed; mouth compreffed, and denticulated within ; jaws unequal, the upper furnifhed with ferrated fide-plates. tongue thort, rough, with teeth turned inwards ; eyes middle-fized, round and marginal ; gills internally fetaceous, their covers confifting of three or four plates, the membranes eight-
raycd; body comprefied, elongated, covered with tinominal fcales, lateral line ftraight, near and parallel to the timee. back ; under part of the abdomen forming a ferrated ridge; ventral fins uften with nine rays, caudal lorig and forked.

Herring. -Without fpots ; the under jaw the long-burenturs. eft. In lize, this well-known fifh is found to vary very confiderably, though the general length may be reckoned from 10 to 12 or 13 inches. Thie back is of a durky blue or greenifh, and in the recent or living filh, the gill-covers are marked by a reddif or vioiet-coloured fpot. The fcales are rather large, and adhere flightly. The fins are rather fmall, and the tail is much forked. In moft fecimens, the anal fin has 17 rays. The herring inhabits the northern feas of Europe, and the Atlantic ocean, and is feldom found farther fouth than the coaft of France. Its food principally confitts of fmall fithes, fea worms, and a minute feecies of crab, carcer lalecum, which abounds in the Norwegian feas. When it has fed on this laft, its inteftines are filled with the red ova of the infect, and is unfit for being falted. At fpawning time its flomach is always empty, which feems to indicate that, like the falmon, and fome other fifhes, it is, at that feafon, quite negligent of food. Herrings fpawn at different fealons, fome in fpring, fome in fummer, and fome in autumn, when they approach our thores in immenfe thoals. But the reality of their long and periodical migrations is by no means afcertained. On the contrary, it is more probable, that, like the mackrel, they pals the winter in deep water, or in the foft mud at the bottom, at no very great diffance from the fhores. They are, in fakt, found about fome of the European coalts at almof every feafon of the year; and the alleged rapidity of their northern voyages greatly exceeds the fwifteft progrefs of which they are capable. They are the ceafelefs prey of feveral of the cetaceous tribe of animals, of various filhes, and of different forts of fea fowl, particularly of the gannet, or folan goofe. Notwithftanding the great importance of this fifh to the inhabitants of nodern Europe, we find no certain defcription of it in any of the Greek or Roman writers. The Dutch engaged in the herring fifhery in $116_{4}$, and the difcovery of the pickling procefs is afcribed to William Beukclen, of Biervlet, near Sluys. He died in 1397; and Charles V. in honour of his memory, paid a folemn vifit to his tomb.

Pilchard.-Silvery, with dukty back, and largepilchardiso. ftrongly adherent fcales. Very like the preceding, but fmaller and thicker, with larger fcales, and the dorfal fin placed esactly in the centre of gravity. Very frequent on fome of the European coafts. Ufually vifits the fhores of Cornwall in vaft fhoals, about the middle of July, and difappears on the commencement of winter. On the $\boldsymbol{g}^{\text {th }}$ of October, ${ }_{7} 767$, there were included in St Ives' Bay 7000 hogtheads, each of which contained 35,000 filh, in all 24 millions.

Sprat.-With 16 or 17 rays in the dorfal fin. Apprattise. very frmall fpecics, like the fry of herring; but it has a frongly ferrated abdomen, and only $4^{8}$ vertebre in the back-bone, whereas the herring has 56 . Inhabits the northern and Mediterranean feas, and approaches the fhores in countlefs fwarms, in autumn.

Shad.-Black fpots on the fides, the fnout bifid. In alufe。 general appearance refembles the pilchard ; but is much

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Abdominal larcer, mad much thinner in proportion. Native of the Fithes.
encrafico-
lus.

Cyprinus.

## barbus.

sarpio.
gobio.

Corp.- Anal fin nine-rayed, four beards, the fecond say of the dorfal fin ferrated behind. The moft common colour of this fpecies is a yellowith olive, much
deeper on the back, with a gilded tint on the fide. In mon colour of this fpecies is a yellowith olive, much
deeper on the back, witl a gilded tint on the fide. In our own country it meafures from 12 to 16 inches in our own country it meafures from 12 to 16 inches in
length; but in warmer climates attains to a much larger fize, and fometimes weighs from 20 to 40 pounds. It feeds chictly on worms and water infcets, and freIt feeds chictly on worms and water infcets, and fre-
quents the lakes and fmall rivers in the fouthern parts of Europe, ufually decreafing in fize the farther it is removed into a northern region. It is very tenacious of life, and may be kept for a confiderable time in any damp place, though not immerfed in water; ar.d well anthenticated inftances are quoted of its attaining to the age of more than a century. It is faid to have been inage of more than a century. It is laid to have been in-
tsoduced into England about the year $15^{14}$. In Germany and Poland, it is cultivated as a confiderable article of commerce. A carp of three pounds weight will produce 237,000 ova, and one of nine pounds, 621,600 . A green pigment is obtained from its bile, and iinglafs from its air-bladder. It is reckoned one of the moft delicate of frefh-water fifhes. A variety of the moft delicate of frefh-water fifhes. A variety
occurs in fome parts of Germany, with very large fcales, and termed by Bloch rex cyprinorum. Mediterranean and northern feas. In Cpring, it afcends rivers for the purpofe of depofiting its fassn. Like the herring, it dies almolt immediately on being taken out of the water. Though prepared for the table in many countries, it is rather coarfe and infipid.

Anchory. - The upper jaw longeft. Ufual length from three to four inches, of a fomewhat lengthened form, and covered with large, thin, and eafily deciduous fcales. Native of the Mediterranean, northern, and Atlantic Ceas. Spawns from December to March. It is in great requeft as a pickle, the bones difolving entirely in boiling. The principal anchovy fiftery is about the fmall illand of Gorgona, near Leghorn.

The remaining fuecies are malakarica, africana, fonenfis, thriffa, gigantea, atherinoides, fetirofiris, durab, tuberculuta, chryfoptera, fafciata, nafus, macroccphala, and tropica.

Without teeth; mouth in the apex of the head, and bifulcated; gill-n:embrane three-rayed; body fmooth and whitith; ventral fins generally nine-rayed.

Mof of the cyprini inhabit the freft waters, and are much efteemed as food. They live on clay, mould, worms, infecis, and leguminous and aquatic piants, though fome of them allo prey on other fiftes. Moft of them Spawn in April or May.

Barbel.-Anal fin \{even-rayed, four beards; fecond ray of the dorfal fin ferrated on both fides. Has fomewhat the habit of a pike, and is ufually found in deep and rapid rivers in moft of the middle and fouthern parts of Europe. It is eafily diftinguifhed by its two pair of long and unequal beards. Its ordinay length is from 18 inches to two feet. Though capable of fwimming with frength and rapidity, it fometimes allows itfelf to be taken by the band by divers employed for the purpofe. It is a coarfe fift ; and the roe is 「aid to operate as an cmetic and cathartic.

Gudgeon.-Ana! fin elevers-raved, two beards. Ge-
neral length from four to five or fix inches; the body Ahduminal thick and fomewhat cylindrical, for the moft part of a Filh-s. pale olive brown above, the fides filvery, and the abdomen white. This is a very prolific fpecies, and depofits its [parm, at intervals, in the fpring. Inhabits fmall lakes and gently Howing rivers in moft parts of Europe, and is particularly abundant in fome parts of Germany, efpecially in autumn. In requeft for the table.

Tench.-Anal fin with 25 rays; tail entire; body tinca. flimy; wo beards. The ordinary length of the tench is about 12 or 14 inches; but it varies confiderably both in fize and colour, according to its fituation. It refides in ftagnant waters with muddy bottoms, in moll parts of the globe, depofirs its minute greenilh os: in May and June is very prolific, of quick growth, and is luppofed by fome to hibernate in the mud of the waters which it inhabits. It is reputed a delicate fith for the table. In Mr Daniel's Rural Sports, we find the following remarkable palfage. "A piece of water, at Thornville Royal, Yorkilire, which had been ordered to be filled up, and whercin wood, rubbilh, \&c. had been thrown for years, was, in Novenber, 1801, directed to be cleared out. Perfons were accordingly e:r:ployed, aid, almoll choaked up by weeds and mud, fo little wate: remained, that no perfon expected to fee any fill, excont a fe:v eels; yet nearly 200 brace of ierch, of all fizes, and as many perch were found. Afer the pond was thought to be quite free, under fome ruyts there feemed to be an animal, which was conjestured to be an otter; the place was furrounded, and on opening an entrance among the roots, a terich was found of a moft fingular form, having literally affumed the fhape of the hole, in which he had of courfe for many years heen confined. His length from fork to eye, was two feet nine inches; his circumference, almolt to the tail, was two feet three inches; his weight 11 pounds, nine ounces and a quarter : the colour was alfo fingular, his belly being that of a charr, or a vermilion. This extraordinary fih, after having been in\{pected by many gentlemen, was carefully put into a pond; but, either from confinement, age, or bulk, it at firlt merely tloated, and at laft, with difficulty, fwam gently away. It is now alive and well."

Crifian - Anal fin ten-rayed, lateral line ftraight. carafius. Length from eight to ten inches; fhape very deep, with confiderable thicknefs; colour deep olive yellow, with a filvery tint on the abdomen. Inhabits ponds and large fagnant waters in many parts of Europe. Grows flowly, and is much infefled by the lerncea cyprinacea. Spawns but once in two years, and is in confiderable efteem as an eatable fifh.

Golden catp, or gold.fifh. Two anal fins, the cau-auraturs. dal tranfverfe and forked. This farourite ornament of our houles and gardens, is a native of the fouthem parts of China, and exifts in its atural ftate in a large lake in the province of Kiang, whence it has been diffufed over the country, and cherilhed with fondnefs and attention. It is faid to have been firit introfuced into England in $\mathbf{8}$ Gi. In its domeftic fate, it is fubject to very confiderable variations in colour, form, and even number of fins. It may be fed with fine bread crumbs, fmall worms, water-tinils, yolk of eggs dried a:d powdered, \&c. and fhould be fupplied with a frequent change of water.

AIMrou.
bdominal Minow. - Anal fin eight-rayed; a brown fpot at the Fihhes. tail; body tranlparent. A fmall, but elegant and familiar fpecies, frequenting the finall gravelly freams in mony parts of Europe and Siberi.. In our own country it appears firft in March, and difappears about the beginning of Otober, when it lecrets itfelf in the mud. It is gregarious, and fond of warmth, siten fivinming in floals near the furface of the water, in clear hot weather. It feeds on herbs and worms, is very prolific, and of a delicate flavour, though feldom prepared for the table, on account of its fmallnefs. It is more frequently ufed as bait for other filhes.

Dace, o: dare.-Eighteen rays in the anal, and nine in the dorfal fin. I.ength from fix to eight or ten inches. In manners, allied to the roach, and inhabits lakes an! rivers in many parts of Europe. Littlc eiteemed for the table.

Roach.-Anal fin with 12 rays; ventral rays of a blood-red colour. Silvery, with a calt of dull yellow, more duiky on the upper parts; fins red. Frequents deep, ftill, and clear rivers in molt of the middle parts of Europe, often appearing in large fhoals, preceded by one or more, apparently ftationed as a kind of guard. It fnawns about the middle of Niay, and is very prolific. It ufually weighs about a pound, or a pound and a half. Its flefh is white, frm, and well tafted, but not beld in any great repute.

Orf.-'Thirteen rays in the anal fin. Length from ro to 12 inches, or more. Refembles the gold-finh, and kept in fnall ponds on account of its beautiful appearance. Native of many parts of Germany, Rufia, \&c.
ythroph-Rud-Anal fin with 15 rays; fins red. About 8 or 10 inches long. Native of leveral parts of Europe, in lakes and river; with a gravelly bottom. Reputed edible, and in feafon in fuminer.

Chub. -Fourteen rays in the anal fin; fnout rounded. Refembles the tench, but has a more lengthened form, and a thicker head in proportion. Ordinary length from $1+$ to 18 inches. Native of many parts of Europe, and not uncommon in Great Britain, occurring chierly in clear and rapid rivers. Rather coarfe and unpalatable, and apt to acquire a yeliors colour in boiling.

Bleak. -Twenty rays in the anal fin. Length five or fix inches; thape llender; colour bright filvery. From its fcales is prepared the filvery matter ufed in the manufacture of artificial pearls.

Brcam.-Twenty-feven rays in the anal fin; the fins brown. Of a very broad or deep flape, and from two feet to two and a half long. Of an olive hue, with a pale or Acih-coloured tinge on the under parts. Inhabits the lakes and rivers of many parts of Europe. As an article of food, it is reckoned rather coarfe and infipid.

Befides the above, this genus likewife comprehends the rondeletiii, gibelio, blicca, ballerus, pomeranicus, fimbriatus, cirrhofus, falcatus, americanus, biörkna, farenus, grifagine, bynni, bulatmai, capota, caucus, matchus, julus, buphithalnus, quadrilobus, tincourea, ferrugineus, nigro-aurntus, viridi-violaceus, punctatus, amarus, fericeus, capioo, cultraus, cephalus, afpius, idus, nafius, ferta, dobula, lancafrienfis, murfa, regius, laben, Isponcophalus, catafomus, galian, clupeöides, gonorhynchus, aphya, and rivularis.

Gen. 20. Mormyrus.
Cartilagi-
nous Finhes.
Snout produced; mouth terminal; teeth feveral, and Mormyrus.
emarginated; aperture without gill-cover; gill-mem-
brane fingle-rayed ; body fcaly.
In confeguence of Geoffroy's recent inveftigations, this hitherto obfcure genus is ranked in the abdoninal order ; and the number of fpecies has been increafed from three to nine. They are all natives of the Nile.

Anguilliform mormyrus, has a harp fnout, equal anguil. jaws, 26 rays in the dorfal fin, and a binid acuteloidets tail.

The other Species are kannume, oxyrhynchur, falalio, bebé, herfé, cyprinoites, bané, and lafilquibii.

## V. CARTILAGINOUS.

The fithes of this order have their fins furnihed with cartilaginous rays. Their lungs are more fimilar to the gills of fithes than to the pulmonary fyltem of the mammalia and amphibia; and in fome of the genera are found both lungs and gills.

## Gen. y. Ostracion.

Oitracior,
Teeth pointing fortrard; body mailed by a bony covering.
Triquetral or three-fided srunk-fibl- Body triangu-triqueter. lar and unarmed. This fpecies is of a trigonal thape, meafures about 12 inches in length, and except to within a fmall diftance from the tail, is completely enveloped in a bony covering, divided into hexagonal fpaces. Its prevailing colour is brown, with a white fpot in the centre of each hexagon, which is allo marked by fine rays diverging from the centre to the edges. Native of the Indian and American feas, and highly efteemed as an eatable filh amiong the Eaft Indians.

The gencric characters of the trunk-filhes are readily recognifed ; but the fpecific marks are not eafily afcertained. Dr Shaw enumerates, in addition to the preceding, trigonus, biaculeatus, cornutus, tricornis, quadricornis, turritus, concatcnatus, nafus, cubicus, melsa: gris, auritus, Arictus, suberculatus, and gibbofus.

## Gen. 2. Tetrodor.

Tetrodon,
Jaws bony, divided at the tip; body roughened beneath; no ventral fins.
The fifhes of this genus, like the diodons, have the power of inflating their body at pleafure, by means of an internal membrane for that purpofe; and during the time of inflation, the fnall fpines difperfed over their fides and abdomen are raifed in fuch a manner as to operate as a defence againft their enemies. They are chiefly natives of the tropical feas, though fometimes feen in the higher northern and fouthern latitudes, and are fuppofed to live principally on the cruftaceous and teftaceous animals.

Electric tetrodon.-Bady brown above, yellow on the electricus. fides, fea green beneath, and varied with red, green, and white fpots. Length feven or eight inches. Inhabits rocky places among the corals, in the Indian and American feas; and, when touched, affcets the hand with a gelvanic flock.

Cartilaginou $F$ fines ecellatus.

Ocellated tctrodon.-Dull green; whitifh beneath, with a black crelcent over the fhoulders, and fot on the back, both edged with yellow. Inhabits the Indian feas, and fometimes the adjoining rivers, particularly thofe of China and Japan. It is of a very poilonous nature ; and the emperor of Japan prohibits his foldiers, under very fevere penalties, from eating it. The fceleratus is allo reputed highly noxious.

The other 'िpecies are lagocephalus, linegrus, lrifpidus, refludineus, Jpengleri, honkenü, oblongus, lavigatus, Aellatus, punctatus, meleagris, and rofiratus.

## Gen. 3. Diodon.

Jaws bony, undivided; body befet with moreable Spines.
bylris.
atringa.
Porcupine diodon.-Of a fpherical form, with triangular fpines. Of a confiderable fize, fometimes meafuring two feet in length. It poffeffes the power of inflating and contracting itfelf at pleafure, remarkable inftances of which property it is faid to exhibit when taken with a line and hook. Its 月eth is coarfe, though fometimes eaten by the inhabitants of the Weft-Indian iflands.

Oblong diodon.-With round fpines. Nearly allied to the preceding, and confidered as poifonous.

The remaining fpecies are denominated orbicularis, plumieri, and liturofus.

Cephalus.
Gen. 4. Cephalus.
Jaws bony ; body terminating abruptly, fo as to refemble the head of a fifh.
brevis.
Short fun-ffh, or Bhort diodon. Tetrodon mola of Linnzus.-Body fuborbicular, very thort and broad, terminating abruptly on the hind part, where it is edged by a fhallow fin. The general colour brown, with a filveny caft on the fides and abdomen. Native of the northern feas, where it fornetimes arrives at the length of eight or even ten feet, and to the weight of 500 pounds. Allo a native of the Atlantic and Ethiopian fea. It is faid to exhibit a flrong phofphoric light during the night. The oblong is probably only a variety of this fpecies, as La Cépède has obferved intermediate gradations between the two. The variegated is diftinguifhed by whitifh undulations and fpots; and the pallatian by its filvery hue, brownith back, and fpiny carinated abdomen.

Syngnathus.

## Gen. 5. Sysgnathus.

Snout fubcylindrical, with terminal mouth; body lengthened, jointed, and mailed; no ventral fins.
fizs.
Great pipe-fi/h, or longer pipe-ffle-Caudal, anal, and pectoral fins radiated; body hevangular. Generally from twelve to fifteen inches long, but fometimes from two to three feet; of a very flender form, and of a pale yellowifh brown colour, with broad alternate zones of a deeper brown. In fpring, as in others of this genus, the ova apper $r$ in an appropriate channel at the lower fart of the abdomen, and the young are excluded from them completely formed. Native of the European Ceas. The rypzile, or finaller pipe-fif?, feems to be only a variet v .
kippocem- Sca-liorfe, or fea-korfe pipe-fifs.- Tail quadrangular, tius.
without a terminating fin; body heptangular and tu- Cartilay berculated. General length from fix to ten inches; nous Fill body much compreffed; colour greenifh brown, varied with darker and lighter Specks. In its living tlate, the head and tail are carried nearly Itrait, but when dry or contracted, it refembles the ikeleton of a horfe. It is a native of the Mediterranean, northern, and Atlantic feas.

Foliated pipe fofh.-Blackifh olive, with white fpecks, foliatus. and leaf-lliaped appendages. Thefe laft are fituated on very flrong, rough, fquare fpines or proceffes attached to the back, tail, and abdomen, and give the whole animal a very grotefque and anomalous appearance. This curious fpecies is a native of the Indian feas; but nothing particular feems to be known relative to its habits or natural hiftory.

The ophidion, biaculeatus, pelagicus, eequoreus, and barbarus, require no patticular delcription.

## Gen. 6. Pegasus.

Pegafus.
Mouth beneath, with a retractile probofcis; upper jaw elongated, denticulated, enfiform under the fnout and linear; gill-aperture fimple, placed before the pectoral fins; body compreffed, articulated with bony incifures, and covered with a hard cruft; ventral fins placed behind the peetoral.

Little or dragon pega/us.-Snout conical. Onlydraconis. three or four inches long, with large pectoral fins, which enable it to fupport itfelf for fome moments in the air, when it fprings occafionally over the furface of the water. Native of the Indian feas.

Flying-pegafus.-Snout enfiform and denticulated.volans. Length three inches. Native of the Indian feas.
Swinming pegafus.--Snout enfiform and unarmed. natans. Length three or four inches; mose flender than the preceding. Native of the Indian feas.

## Gen. 7. Centriscus.

Head produced into a very narrow fnout; no teeth; the lower jaw longeft; gill-aperture waving; body compreffed; abdomen carinated; ventıal fins united.
Mailed or Jielded trumpet-fiß.-Back fmooth, with/cutatis. a hard thield, like a thin plate; eigbt inches long. Native of the Indian feas.

Snipe centrifcus.-Body fcaly and rough; tail frait/colopas. and extended. Smaller than the preceding. Native of the Mediterranean and Indian feas. Ranked among edible filhes.

Light-armed centrifcus-Half-hielded, filvery, with velisans. fubrecumbent dorfal fine. Length about two inches. Native of the Indian feas.

## Gen. 8. Balistes.

Baliftes.
Head compreffed, and an apparent continuation of the trunk, in fome fpecies, armed with a fpine between the eyes; mouth narrow; eight teeth in eacl jaw; the tro foremolt loneer than the reft ; three interior teeth on both fides, relling againt as many lateral ones; gill-aperture narrorr, above ihe pectoral fins; gill-covers wanting; gill-membrane tro-rayed; body compreffed, carinated on the fides. with lcales groning an the fkin, and zough with tharp prickles.

Mont

Moft of the ppecies of this genus are natives of the Indian and American feas. They can in lome degree indate their adomen by means of a ftrong bone, rough with fmall prickles, which lies under the fkin. They feed on other filles. Same of them are very large, and fome remarkable for the brilliancy and variegations of their colours. In general, they are reckoned poifonous.

Unicorn file-fifb.-A fin of one ray on the head; rays of the caudal fin carinated. The body is of an oval form, from one to two feet long, and covered all over with very minute fpines. The general colour is gray, inclining to brawn on the upper parts, and varied with irregular warings and fpots. Juft above the cyes is a fingle fine of confiderable length, a little recurved, and ferrated on the hind part. lts food chiefly confifts of cruflaceous and teftaceous animals.

Mediterranean file-fi/b.-Violet-gray, with red or blue variegations, fingle ventral fin, and rounded tail. Length of the preceding, and thape ovate. Almoft the only fpecies found in the European feas. The rays of the firft dorfal fin are fo continued as to act in concert with confiderable force in raifing the fin at the pleafure of the animal.

Ancient file-fifh, or old wife. Firt dorfal fin threerayed, rentral fin longitudinal ; caudal bifid. Length from one to two feet, or more, general colour yellowifholive, paler beneath. Several blue ftreaks on the front and cheek, and fome tranfverfe and longitudinal ftrips on the body. This fpecies is fuppofed to have obtained its name from the mouth, when viewed in front, or from the flightly murmuring naife which it utters when firlt taken.
undulatus Undulatcd file.fif.-Black, but waved by oblique red lines. Obferved about the fhores of Sumatra by Mr Mungo Park.

The other forts deferibed by the moft recent ichthyologits are, hifpidus, tomentofus, papillofus. chinenfis, ringens, liturofus, leais, fonneratii, bicolor, virffeens, fafciatus, unimaculatus, cinereus, maculatus, aculeatus, verricofus, biaculeatus, forcipatus, fignatus, punçatus, capiflratus, kleinii, curaffavius, and afjafi.

## Gen. 9. Cyclopterus.

Head obtufe; mouth ftanding forward; tongue fhort and thick ; jaws armed with fmall fharp teeth; gillmembrane four-rayed; gill-cover of ane plate; body thort, thick, and fcalelefs; ventral fins united into an orbicular membrane.
Lump-fucker, lump fifh, fea-owl or cock paddle. Bady angulated, with bany tu ercle; grows to the length of 19 inches, and to the weight of feven pounds. It is of a deep and very thick thape, and fwims edgewife; the back is Marp and elevated, and the belly flat. There are four rows of large tubercles, and the whole IFin is rough with fmaller ones. On the upper part of the back is a thick ridge, deftitute of fpines. Beneath the pectoral fins is an oval aperture, furrounded with a flefly mulcular fubftance, edged with fmall filiform proceffes, which aft as clafpers. By mears of this organ it adheres very ftrongly to any thing it pleafes. The telly is of a bright crimfon colour. Inhabite the northern, American, and Indian feas. Depofits its orange. coloured ova near the fore in April Vol. Xl. Pait I.
and May. The Greenlanders boil the roc, which is Cartilagivery large, and eat both it and the filh. In England, nous Finea; t!le latter is fometimes fiewed, but is thabby and inipid. The lump fuckers are frequently devcured by feals, which leave the flins; numbers of which, thus emptied, may often be found in the fpring, along thofe diftricts of thore which are frequented by this fipecies, " $1 t$ is eafy, (adds Mr Pennant), to dittinguifh the place where feals are devouring this or any unctuous fifh, by a fmoothnefs of the water immediaiely above the fpot." The paroninus, or pavonian fucker, agrees with this fpecies in all particulars, except fize, and is therefore, prabably only a variety. The gibluofus of Willoughby, or pyramidal fucker, feems alfo to belong to the fame fpecies, and to be diftinguilhed only by the pyramidal elevation of the back.

Small fucker.-Body naked ; faut marked ahave the minufus. mouth by three tubercles. A very fmall fpeciec, which inhabits the Atlantic occan, and feems to be allied in habit to the common lump-fifh. The bady is comprefsed, of a whitin colour, and has two white unequal tubercles on each fide.

Unctuous or frail-fucker-Body naked; dorfal, anal, liparis. and caudal fins united. The length varies from five to eighteen inches. The hape is elongated, thick, comprefled; the flin thin and las, and covered with a vif. cid humour, like a fnail. It is brownih, with darker fripes above, white beneath, and flightly yellaw on the head and fides. It inhabits the northern feas, and fometimes afcends rivers.

Cornifb or jura fucker, or leffer fucking-ffh.-Ofcornubiena purplihh brown colour, with lengthened front. About $\sqrt{2}$. four inches long; fkin without fca!es, and Nippery. Native of the European feas. Found by Dr Borlafe on the coaft of Cornwall, and by Mr Pennant in the found of Jura.

Binaculated fucker:-Body without fcales; pectoral bimaculafins placed very high; a round black fot on each fide tus. of the ventral membrane. About an inch and a half lang; the colour of the head and bady fine pink. Inhabits the fea about Weymouth.

The remaining known fpecies of this genus are, dentex, gelatinofus, ventricofus, lineatus, and bifpinofus.

## Gen. io. Lophius.

Loshius.
Head depreffed; many flarp-pointed teeth; tongise broad; and armed with teeth; eyes an the upper part of the head; nofrils fmall; gills three; one lateral aperture; pectoral fins placed on the long branchixe; dorfal and anal fins oppofite, and near the tail; body fcalelefs, covered with a thin and lax作in; vent in the middle; no lateral line.
The fines of this genus are of a fingularly uncouth appearance; the body being thick and thapelefs; the head exceffively large, and the fins thort and broad.

European or common angler, frosifih, load-filh, pifcato fifhing-frog, fea-devil, \&c.-Depreficd; head rounded. rius. The ordinary length of this fpecies is from two to four feet, though it fonctimes meafurcs fix or even feven fect. Its form refernbles that of a tadpole. The flin of the trunk is fmooth, but that of the upper parts marked by various inequalities. The eyes are large and whitith; the lower jaw is conderably longer than the unper. 'Swof or three long, thread-like procefies
(
proceed

Certil qi- proceed from the upper part of the head, and fome nou Jithes. Hiorter ones from the back, while the edges of the body are fringed at intervals with thorter appendages of a fomewhat fimilar nature. The upper furface is brown, with deeper or pale variegations, and the under furface whitif. The frog-fith inhabits the European fear; frims flowly; lies in ambuil, in thallows, halfconcealed by fea-plants or mud, and decoying its prey by moving its worm-like procefles. It feeds on the dow-filh and fmaller filhes. The cornalienfir, cornifh, or long argler, or fifieng-frog of Mount's bey, defcribed by Borlate and Pennant, is fo nearly allied to this that it rivy he regarded as only a variety.
biffrio. Horlequin angler, or Anerican toad-fjh.-Compreffed; of a yellowihn brown colour, with irregular blackith fpots, and beards on the head and body. 'This, which is one of the moll grotefque and lingular of fifhes, is a native of the Indian and American feais, growing to the length of ten or twelve inches, and in manners refembling the European angler.

The other fpecies are, muricatus, vefpertilio, Ariatus, pitus, marmoratus, and commerfonii.
Accipenfer.

## Gèn. it. Accipenser.

Head ohtufe; mouth placed under the head; retractile, tocth!efs; four beards under the fnout and before the mouth.

The filles of this genus are among the largeft of the tribe. They are all inhabitants of the fea, though forne occafionally afcend rivers in great fhoals. All the fpecies are large, feldom meafuring, when full grown, le's than three or four feet in length. Their fleib is reckoned delicate and nutritious; and they form a very confiderable article of commerce on the banks of the Calpian fea, and many parts both of Eurone and America. They feed principally on worms and uther fill.
furio. Common Aurgeon.-Snout obtufe; the tranfverfe diameter of the month equal to the longitudinal ; the beards on the frout near the end of it ; lips bifid. Of a long, flender, and pentagonal form, attaining fometiares to eighteen feet in length, and weighing five hundred pounds. The whole length of the body is covered by five rows of large, 1 rong, and bony tubereles, rounded at the bafe, radiated from the centre, and terminated above by a flarp curved point in a reverled direction. The whole fkin , on the upper parts and fides, is alfo roughened with very fmali tubercles of a fimilar fructure. The general colour is cinereous above, and whitifh or ycllowih beneath. Though generaily a Iluggi!h fifh, it fometimes fprings out of the water with great force. It feeds on filhes, particularly the lierring, falmon, mackrel, and coal-fifh. It fpawns in fpring, and is amazingly prolific, Lewenhoeck having found in the roe of one of them $150,000,000,000$ ova ! It inhabits the ncean, the Mediterranean, and the Rcd, - Black, and Cafpian fuas, efpecially fuch paris of them as are not remoie from the eftuaries of large rivers, which they occafonally afcend in great multitudes. In fome of the rivers of Virginia they are fo numerous that fix liundred have been taken in two days merely by a no!e, with a llrong hook fixed to the end of it. The flefl is very delicate, white, and firm, and when roa?ed, is faid to refem'le veal. In this country it is ufually ferved in a pickled thate, being imported from

America and the Baltic. It is fometimes, however, carilatitaken in our rivers in the falmon-nets. The fturgeon nous Fithes. was a fill in high repute with the Grecks and Romans, and according to Pliny, was brought to table with much pomp, and ornamented with flowers, the flaves who carried it being alfo ornamented with garlands, and accompanied by mufic. Caviar is made of the dried and filted roe. 'The fkin makes a good covering fu: carriages.

Sterlet Aurgeon.-Brornilh, with the fides fpoted ruthenus. with pale red, and the body ftuielded above by a rriple feries of tubercles. The fmallelt and moft delicate fpecies of the genus. Native of the Cafpian fea, found alfo in the Volga and Ural, and occafionally in the Baltic. In feafors when this filh happened to be unufually dear, Prince Potemkin paid three hundred rubles for a lingle tureen of fterlet foup, which formed the mere prelude to his repaft.

Ifinglafs Aurgeon, or beluga.-Snout very obtufe, bufo. tranfverfe diameter of the mouth lefs than the longitudinal; beards near the mouth; lips not cleft. Larger than the common feecies, and fometimes meafuring $\dot{z}_{5}$ feet in leugth. The tubercles are fmaller than thofe of the Murio, and feem to fall off with age. Inhabits the northern, Cafpian, and Mediterranean feas. linglas is prepared from its found or air-bladder, and an inferior fort from the $1 k$ in, tail, ftomach, and inteftines. See Ichthiocolla.

To thefe may be added fchypa, and ncllatus; the firft perhaps only a frraller variety of תurio, and the latter: diltinguifned by the far-like marks on its head.

## Gen. I2. Chimiers.

## Chimæra.

Head ftrarp-pointed; fpiracles folitary, in four divilions under the neck; mouth under the head; upper lip with five divifions; fore teeth like cutting-teeth, two in each jaw; body long, with a fingle finise on the back; the tail ending in a britte, and longer than the relt of the body.
Sea-monfler, northern chimera.-Punctured folds below the linont. A lingularly grotefque fpecies, inhabiting the northern and Atlantic ocean; frequenting the deepeft recefles, preying on fmaller filhes and mollufca and teftacea; and rarely approaching the thore, except during the breeding feafon. It is from three to four feet long, of a lengthened and compreffed form, tapering to the tail, which is produced into a long and flender filanent. The head and eyes are very large ; and at the bafe of each ventral fin, in the male, is a lengthened procefs, rough with numerous tharp prominences in a reverfed direction. The whole body is of a yellowbrown above the lateral line, and of a bright filvery colour beneath it, variegated with numerous irregular deep brown or blackifh ipots and patches. Its flefh is confidered as coarle and uneatable.

Elephant folb, or fouthern chinara.-Snout produ- calorbynced beneath into an inflected lip. Native of the fou-chus. thern feas.

## Gen. I3. Squalus.

Head obtufe, from four to feven femilunar fipiracles on the fides of the neck; eyes oblong, half covered, placed before the temporal opening; mouth in the under part of the head, armed with leveral rows of
ferrated harp-pointed teeth, fome of which are moveable, fonse fixed, and of difierent form: ; body oblong, round, rough, with llender prickles; rentral fins, for the moft part, lefs than the pectoral, clote, placed about the ver:t, and in the males about the organs of generation.
The animals which compofe this tribe are entirely marine, and more frequent in the lot than in the temperate climates. In general they are folitary, and often wander to great diftance, devouring almolt every thiag that comes in their way, and that they are capable of fwallowing. Sume of them will follow ve!?ls feveral hundred leagues for the carcafes and offals. They fometimes atain to an enormous fize, as they often weigh from one to four thouland pounds each. Some few fpecies are gregarious, and live on the mollufea and otler marine worms. 'They are all viviparous, and like the rays, protrude their young in pellucid horny cafes, terminated at the four corners by long, flender filusents, and which are geneally found witted round corallines, fea-weed, and other fixed fubitances. Their fielh is fo tough, coarle, and unfavoury, that even the young are hardly eatable. 'Their budies enit a phofphoric light in the dark.

Panther fhark, greater or fpotted dog-f/h-Noftrils furrounded by a fmall lobe, and a vermiform appendage, ventral fins feparated. Three or four feet long; brownifh, with red or black fpots; bedy cylindrical, but compreffed at both extremities; thin rough, and when dried, ufed for polinhing and other purpoles. Inhabits the fea almof everywhere. The female breeds frequently, and brings about nineteen young at a time.

Sported Bark, or leffer Spotted dog-fif.-Noftrils furrourded by a fnall lobe and a vermiform appendage; ventral fins united. Length from two to three feet. Colour pale brick-red, with very numerous, fmall dulky fpots. Very common in the European feas, very voracious, and a great annoyance to the fihermen. According to Pennant, it breeds from nine ro thirteen at a time. Its liver is faid to be highly noxious, inducing long continued tupor, fucceeded by an unirerfal itching and lofs of the cuticle.

Tope.-Teeth nearly triangular, and denticulated on the upper margin Grows to fire feet or more, is round and elongated, and often weighs upwards of 27 pounds. It is of a lighter or darker cinereous hue above, and whitish below. It finells very rank, and is fo bold as to purfue its prey to the very edge of the Aoore. It inhabits the European ocean, and is frequently feen about the Britifh coalts.

Hammer-headed fark, or balance-fif.- Head very broad and tranfverfe, fomewhat in the fhape of a harnmer. This deformed fpecies meafures from five to fifteen or feventeen feet. The body is rather flender, and fomewhat cylindrical ; the head dilated on each fide to a great extent, with the eyes which are very large, placed at each extremity. It is brown above, and paler, or whitith beneath. Native of the Mediterranean and Indian feas, where it attacks fuch as are accidentally expofed to its fury, or are incautioully bathing or fwimming in its neighbourbood. The natives of Otaheite, trufting to their dexterity in fximning, appear to hold it in contempt.

Heart-headed park -Head rery broad and heart- raret iflaped. In other relpects g.catly allied to the preced mu rules, ing, but is much more rare, and chictly intabits the siburo. Sonth American leas.

Bhise finark.-Sides of the tail fmouth, a cavity on gla:cus. the bak of the tail. Of a more fender and eiegant Anpe than the other fpecies, meafures from ten to ourtecn feet, is of a blue-green above an! white beneath. It is very bold aid voracious; inhailis the European icas, and frequents feveral of the Britifh coalts, efecially theie of Cornwal!, during the pilchard lea!on.

Porteasle ars-A longitudinal fold on each fidecornubiof the tail. Length from three to eight feet; thaperus. round, except near the tail, where it is depreffed; colour deep on the back, and white or filvery beneath. Inhabis the fea about Cornwall. 'hae monenfes, or Beauman's /bark of Pennant, is now regarded only as a varicty of cormbicus.

Bajking Jark.-With conical teeth, not ferrated.maximus, Body llender, and from three to twelve yards in length, of a deep lad colour above, and white below. The urper juw is blunt at the end, and much longer than the lower. The mouth is furnithe with a great multitude of linall teeth, of which thofe in front are much bent, and the remote ones conical and tharp pointed. It has two dorfal, two pectoral, two vemiral fins, and one fmall anal fin. This fpecies inhabits the northern feas, and derives its name from its propenfity to lie on the furface of the water, as if to balk in the fun, generally on its belly, and fometimes ons its back. It feeds on fea-plants and medufue, and betrays none of that ferocity of difpofition which characterizes moft of the fhark tribe; on the contrary, it feems fo little afraid of mankind, as often to fuffer itfelf to be patted and ftroked. Thefe animals freģuent our feas during the warm fummer months, and appear in fhoals on the Welfh and Scottifh coafts, after intervals of a certain number of years. 'They are obferred in the frith of Clyde and among the Hebrides in fmall troops of faven or eight, or more cominonly in pairs. about midiummer, and difappear about the latter end of July. T".ey fwim very deliberately, and generally with their upper fins above water. Sometimes they may be feen fporting among the waves, and fringing feveral feet abore the furface. They are purfued and taken by the fithermen for the fake of the oil contained in the liver ; that vilcus fometimes weighing a thoufand pounds, and yielding eight barrels of oil, and two of ufelefs fediment. When purfued, they do not quicken their motion till the boat is almoft in contact with them, when the harpooner Arikes his weapon into the body, as near the gills as he can. Sometimes they remain in the fame place till the united flrength of two men is eserted to force the inftrument deeper. Then they plunge headlong to the buttom, and frequently coil the rope round their bodies, and endeavour to get rid of the harpoon by rolling on the ground. Difcovering that thefe efforts are vain, they fwim with fuch ftrength and rapidity, that one inftance has occurred of a balking thark towing to fome diltance a veffel of 70 tons burthen, againit a frefh gale. They fometimes run off with 200 fathoms of line, and two harpoons in them, and will employ the men from 12 to 24 hours before they are fubdued. A large finh has atorded the captors a pro-

Cartilar:- fit of 25 pounds. "A male of this fpecies (fays Dr $\underbrace{\text { reus Jifhes. Shaw }) \text { was tahien in the year } 180 \text {, at Abbetabury in }}$ Dorfethire ontangled in a fithing feine, and after a violent refiftance, was dragged athore. It is faid to have received 17 mulket-balls before it expired; its length was 28 feet, and its circumference in the thick. eft part about 20 feet; its tail, from point to point, wear eight feet; the teeth, according to its proprictor, who tooks the pains to count them, amounted to the number of four thoufand." The ikin make cxcellent fhagreen.
carc?u-
rias.

White flark.-Triangular ferrated teeth. This fpecies, fo remarkable for its powers of deftruction, is a native of molf feas, but occurs more frequently in the warm than the cold latitudes. It arrives at the length of more than 30 feet, and is rather thicker and broader than moll of its congeners. The mouth is very wide, and furnifhed on the margin of each jaw with from three to dix rows of ftrong, flat, triangular, fharp-pointed, and finely ferrated teeth, which can be raifed or deprefled at pleafure. The general colour of the animal is a pale afh, darker or browner on the upper parts. So great is the flrength of the tail, that a young thark of fix: feet in length, is able by a flroke of this part to break a man's leg; hence it is ufual for failors to cut off the tail the infant they drag a thark on board. Gillius quotes a fpecimen which weighed four thouland pounds, and another in whofe belly was found an entire human body; and Müller afferts, that in one taken at the ifle of St Margaret, there was found a borfe which had probably been thrown overboard from fome fhip. The fize of the foffil teeth of this fpecies, fo often found in the itle of Malta, \&c. affords a convincing proof of the enormous fecimens which have once exifted. Sharks are the dread of failors in all hot climates, where they conflantly attend the fhips in expectation of what may drop overboard; and a man who has that misfortune is almoft inftantly devoured. In the pearl-fifheries of South America, every negro, to defend himfelf againf thefe animals, carries with him into the water a fharp knife, which, if the fifh offers to affault him, he endeavours to Arike into its belly, on which it generally fwims off. The officers who are in the vellels keep a watchful eye on the fe voracious creatures, and on difcovering them, thake the ropes faffered to the negroes, to put them on their guard. Many, when the divers have been in danger, have thrown thenfelves into the water, with knives in their hands, and haflened to their defence : but too often all their dexterity and precaution have been of no avail.

Saw fnouted flark, or faurffh.—With a long flat fout, fet with teeth on both fides through its whole length. Inhabits the fouthern and nortbern oceans, grows to fifteen feet in length, and is readily diftinguithed by its produced and faw-like fnout, which is often preferved in muleums.
Picked Arark, or picked dog-fifi-Dorfal fin fpinous; body fomewhat round. Length from three to four feet; colour brownifl afh above and white bencath; rough, with minute prickles, hooked backwards. Common in the European feas, efpecially about the coafts of Scotland and Norway. When fplit and dried, it is eaten by the common penplc.
Squalina.
and emarginated before. A deformed Species, with Cartilagilarge head and pectoral fins, and deprefled body, attain-nous ribhes. ing to fix or eight feet in length. It is a native of the European feas, and is extremely voracious, fierce, and dangerous. It produces twelve or thirteen young at a birtl.

The other known fpecies of this genus are vulpes, Aeliaris, muflchus, fpinax, centrina, philippinus, cinereus, fpinofus, ifabella, cirrhatus, barbatus, africamus, ocellatus, grifeus, amoricamus, fquamnfus, denticulatus, punctulatus, zebra, gronovianus, tentaculatus, and femi-fagittatus.

## Geir. 14. Spatularia.

Spiracles fingle on each fide of the neck, concealed by a large gill-cover; fnout produced, and thaped like a fpatula; mouth beneath the head, large, and furnilhed with Blarp ferrated teeth.

Reticulated fpatularia. - In habit and appearance this reticulata! remarkable fpecies is allied to the Tharks, but diftinguifhed by its thin frout, of the form of a fpatula, and nearly equal in length to the whole remainder of the animal. Its hiftory and manners are very imperfectly known.

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\text { Gen. } 15 \text {. Rala. }
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Raia.
Spiracles on the under part of the neck, ten on each fide, oblique; mouth under the head, fmall, acuminated, as if continuous with the breaft, tranfverfe and dentated; body thin, deprefled, and of a rhomboid figure.
The fpecics of this gemus are entirely confined to the fea, and, being deftitute of an air-bladder, live chietly at the bottom, generally in deep water, covering themfelves in winter in fand or mud. They live on fhellfifh, or other animal fubftances that fall in their way. Some of them become of a fize fo large as to weigh two hundred pounds and upwards. They feldom produce more than one young at a time, which, as in the fharks, is inclofed in a four-cornered capfule, ending in flender points, but not, as in the former, produced into long filaments. The liver is large, and often produces a great quantity of oil. They are montly edible.

Torpeds, torpedo ray, cramp ray, cramp fob, \&xc.- torped's. Wholly fmooth. The body of this fpecies is of a fomewhat circular form, nightly convex above, marked along each fide of the fire by feveral fmall pores, about eighteen inches, or two feet in ler.gth, and for the moft part of a pale reddifh brown on the upper furface, fonsetimes marked by five large circular and dunky foots, and whitith or Hefh-coloured beneath. It inhabits molt feas, but feems to thrive beft in the Mediterranean, ufually lying in water of about lorty fathoms depth, in company with fome of its congeners. It preys on fmaller filh, which it is fuppofed to fupefy by its electric or galvanic faculty. This property, which has been fo much exaggerated both by ancient and modern writers, is neverthelefs, fufficiently remarkable: From fome experiments which were made by Mr Walin on a very ftout and healthy fifh, it appears that no lpark could be difcovered to proceed from it, and that pithballs were never found to be affected by it. When infulated, it gave a hock to perfons who were likewife
atiagi- infulated, and even to fevcral who took hold of each ${ }^{15}$ Fulhes. other's hands; this it did forty or fifty times fuccellively, and with very little diminution of force. If touch. ed only with one finger, the hock was fo great as to be felt with both bands. I'et the animal was not able to tranfmit the flock acrofs the minuteil tract of air, nor from one link of a fmall chain fret ly fufpended to another, nor through an almoll invifible feparation made by a penknife in a 1 lip of tin-foil pafted on feal-ing-was.
Skate-Back fmooth in the middle, with one row of fpines. Common in the European feas. The general colour on the upper parts is a pale afh-brown, varied with feveral duiky undulations, and of the under parts white, marked with nuraerous diftant black fines. In the raale, the pectoral fins are bent towards their tips or edges with numerous fmall fpines. In October, the akate is ufually poor and thin, but begins to improve in Novenber, and is reckoned to be in the highelt. perfection in May. Willoughby makes mention of a fingle fikate of two hundred pounds weight, which was fold in the fith market at Cambridge to the cook of St John's College in that univerfity, and was found futticient to dine the whole lociety, confifting of more than 120 perfons.
Sharp-rofed ray.-Ten aculeated tubercles along the middle of the back. In thape, refembles the preceding, but has a longer and nazrper frout in the form of a fontoon. Native of the Mediterranean and northern feas.
raletus. Mirror ray.-Back and belly fmooth; fyines at the region of the eyes, and a triple row of them at the tail. Each of the pectoral fins is marked about the middle, or near the body, with a large circular, cye-fhaped fpot, confifling of a purplith or dufly circle, with a whitifh or yellowith centre. Inhabits the Mediterranean.
Rough ray.-One row of prickles on the hack, and three on the tail, Greatly allied to the thorn-back; and rough, with many fpines. Inhabits the Mediterranean and other feas.
Sting ray.-Body fmooth; long ferrated fpine on the fore part of the tail; no dorial fin. Shape fomewhat rhomboidal; fnout pointed; colour of the body yellowifh olive auove, and whitith beneath. With its long flattened fpine, which is finely ferrated in a reverfe dieection on both fides, it is capable of inflicting very fevere wounds. As it is amually can, the new fpise fometimes arrives at a confiderable fize before the old one drops off, in which ftate the animal has been occafonally defcribed as a dilfinct fpecies. Though formerly fuppofed to contain a very adtive poifon, this weapon is found to be wholly deltitute of any venomous quality. Inhabits the European, Red, and Iadian feac, and is ranked among the edible rays.

Thorn-back.-Prickly; teeth tuberculated; a tranfverfe cartilage on the abdomen. Refembles the common ikate, but is fomewhat broader in proportion, and is eafily diftinguifhed from it by the very ftrong curved fpines with which its upper furface is covered. It is an inhabitant of the Mediterranean and other feas, and efteemed as a food. The thorn-back begins to be in feafon in November, and continues fo later than the fiate; but the young of both are good at all times of the year.

To complete the fpecific cataloguc of this genus, we
have to add fullonica, çlantersa, aiks, nizra, picia, zima CariingJuhata, alba, margina.a, chagrin:a, aquila. guthata, faf nows tihes. ciata, lymna, cuculur, fepben, tuberculata, poscilina, dicbolus, manatia, giorna, faluroniana, bank,i,iana, fimbrinta, macelasa, bicolur, finenfis, thinolatos, thouiniana, djiddenjes, and cuvicri.

Gen. 16. Petromyzon.<br>Petromyzon.

Head more flender than the body; mouth larger above than below; teeth orange-coloused, hollow within, furrounded with a flefly rim, curved above, broad below ; feven firacles at the ficles of the neck; a fiflulous opening at the back part of the head; co. pectoral or ventral fins.
Lainprey, grea! lamprey, or fea lamprey.-Mouth marinus. within covered with papillx; the hinder dorfal fin feparate from the tail. In general appearance, approaches nearly to the ecl tribe, efpecially to the murænæ. Though it fometimes exceeds three feet in length, the Britilh fpecimens are ufually of inferior fize. Its general colour is a dull brownith olive, clouded with yellowif1 white variegations; the fins are tinged with dull orange, and the tail with blue. On the top of the head is a fmall orifice for the difcharge of the fuperfluous water taken in at the mouth and gills. Among the cartilaginous fifhes, none is fo deflitute of all appearance of rcal bone as the lamprey, in which, the fpine itfelf is no other than a mere foft cartilage, without any proceffes or protuberances the heart, infead of bcing inclofed in a foft pericardium, as in other animals, is guarded by a ftrong cartilaginous one; and the liver is of a fine grafs-green colour. It inhabits the ocean, and afcends rivers chiefly during the latter end of winter and the early months of fping. It is viviparous; and the young are of flow growth. Though capable of fwimming with rapidity, it is more commonly feen attached by the mouth to fome large fone or other fubftance, and that with fuch power of adhefion, that a. weight of more than twelve pounds may be raifed without forcing the filh to forego its hold. It is fuppofed to live principally on worms and young finh. Like the eel, it is remarlably tenacious of life, the leveral parts, when cut in pieces, continuing to move, and the head ftrongly attaching itfelf for feveral hours to a flone, though by far the greater part of the body be cut away from it. "As an article of food, (obferves Dr Shaw) the lamprey has for many ages maintained its credit as on exquifite dainty; and has uniformly made its appearance at the mofl fplendid of our ancient entertainments. The death of King Henry 1. it is well known, is attributed to a too luxurious indulgence in this his favourite difh. It till continues to be in high cfteem; and we are told by Mr Pennant, that the city of Glocefler continues to fend yearly, at Chriltmas, a prefent of a rich lamprey pye to the king, It fometimes happens that the limpreys at that feafon are fo rare, that a guinea is demanded for the price of a fugge fith. They are moft in feafon during March, A pril, and May, and are oblerved to be much more firm when frefh arrived from fea than when they bave been a confiderable time in frefh water. They are found in feveral of the Britifh rivers, but that which is molt celebrated for them is the Severn."

Leffer lamprey or lampern. - The hinder dorfal finfuriatilis. angulated.

Cartil fi- ancutated. Nironn 10 to 55 inches jong ; the back - Un: File-bru: $n$ or dufky, fometimes clonded, or mixed with - bue; the upper part of the body marked by nunerous amular lines, ant the whole under fides fivery. Inhobis the fea, and afcends, in ipring, moll ot the Luropean rivers, in which it is found much more requentIr and nemefully thaia the great lamprey. It is often polted with the latte, and by linne preferred to it, on arcount of its milder talle. The Duth purchale vat anatities of this pecies as bait for their cod and turbatitheries. In the river Baulat. in Couland, great quantitics are esken from bentath the ice, with nets; they are much larger than thole found elfewhere, and are packed in frow, and fent to any diftarice; and, when put into coll water, recover themflese. This fpecies is fo temacious of lite, that it will live many days out tethe water.
Irancbia Minute !amproy or pride. -The hinder dorfal fin lihis. near; the lips belind lubated. Has a worm-like appearance; meanuses from four to feven inches in length; is not obferved to adhere to other bodies; inhabits the European rivers, and is more frequent in the Ifis than clewhere, in England.

Whe remaining fpecies are planeri, ruber, fanguifuga, argenteus, plumbeus, and licolor.
Gaftre.
branchus.

## Gen. I7. Gastrofranches.

Body eel-fhaped; mouth beneath, with numercus fectinate teeth; two firacles beneath the abdomen.
cecus.
Blind gaftrobranchus. Wyxine ghuinofa, Lin.-Livid, paler beneath; with eight beards at the moth. Removed to the clafs of firhes, in coufequence of Dr Bloch's accurate examination of its external and internal fructure. In general appearance, in the fituation of the mouth, and in the orange colour of the teeth, it approaclies rery near to the lamprey. But it is remarkable for the total want of eyes, no vellige of any fuch organ being dicoverable hy the molt attentive examination. The body is deflitute of fcales, lateral line, and fins, except that thallow one which forms the tail. Beneath the body, from head to tail, runs a double rov of equidiftant pores. The fitacles, which are a pair of oral ajertures, are fituated beneatl: the body, at come diliance from the head. Thi- fimeular frecies is faid to enter into the bodies of fuch filles as it happens to find un the filherman's hooks. and which confequently have net the porser of efcaping its attack, and by gnawing its way though the PRin, to devour all the internal part, leaving only the bones and the fkin remaining. Such is its uncommon glutinous nature, ihat, if put into a large veliel of fea water, it for n renders the whole fo sifcad, as eatily to be draw: out intu the form of threads. It inhabits the northern feas, and tetms alfo to occur in thofe of the fouthern hemifphere.
dombey:
Dombeyan gaftrohanchis - Huad tumid. Much larger than the European lj ccics; the head rounded, ard larger than the body; four beards on the upper lif, the number of thofe on the lower uncertain, the fpecimen tein: deferiled in a dried tlate. Eycs and nolrils imperceprible. N:tive of the South American fees. Cbferwed by MI. Dombey, and deferihed by La Cépede from the dried ikin in the Paris mufeum.

」 G Y.
Berfore we conclude this atticle, it may be proper to Natu direct the reader's attention to Ki . Nuucl's paper rela- tion, 3 cc . tive to two methods of multinlying fifhes. The firlt confints in conveying from the lakes to the rivers, and from the rivers to the lakes, fill, found only in cue of them; the fecond, in introducing into freili water, as it wera infenibly, and by means of artificial ponds, fifn prodeced in lalt water, giving the preference to thofe feccies, which by their habits and manner of living, might be moft adapted to this kind of naturalization.

The firt of thele methods iass been fucce'sfully practifed in Germany, with regard to the thad, in ponds and clear flagnant waters, with a bottom of fand or gravel. Perch and trout have, in like manner. been conveyed into lakes and rivers in Scotlond, and have thriven remarkably well. The carp, which affecis a warm temperature, has been fuecellively istroduced in. to the rivers and ponds of Frulia. Denmark, and Ergland. M. Poivre firlt brought the go:rami of ker. gal into the ifle of France, where it bas greatly malt plied.
"Our rivers, (fays this judicious writer), do not contain more than about twenty indigenows fpecies, and fome migratory filles, which at certain periods of the year afcend to a certain diftance from their mouths, or, like the falmon, firim towards their fources as far as they can. The fmall rivers polfefs fill fewer fpecies; the greateft part even are confined to the tencli, the trout, cels, and fome fmaller fill of little value. How advantageous would it be to introduce into thefe rivers a multitude of foreign filh, which, in thete waters could find aliment more agreeable to their tafte, and which would enjoy a temperature as analogous to their wants, as favourable to their reproduction!
"The Seine, which I Inall take as an example, nourithes many lpecies of falmo and cyprinus: but how many other fill of the fame kind might be propagated in it! If the Seine pollefs the falnon, it wants the thymallus, the umber of Auvergue, the lavaretus, the murcena of Germany, the griffe of Scotland, the pala of Swifferland, the ferra of the lake of Geneva, \&c. Why fhould not the carp of the lago di Guarda, and the fchuartz-ritter of the lakes of Berchitoldyaden, an excellent hind of falmon, highly praifed by Baron de Moll, a naturalift of Salzbourg, fucceed in France, if that bottom, to which they are moft attached, were procured for then, at the foot of the Cevennes or the Vôges? Why might they not be afterwards gradually introduced into our fmall rivers? Can it be believed, that the numerous tribe of the trout kind, which fwarm in the rivers of Scotland, would refufe to fupply our colonics with their fpecies? No. There can be no doubt that they would bring thither that fecundity, abundance, and riches, which render them fo valuable to their native ftreams. The cafe would be the fame with the boudelles and hiighings prefented to us by the lakes of Swiflerland, and with the gudgeon, the cyprinus ballarus, and the falmo umbla, bred in the rivers of Lowe1 Germany. Let ws open, then, with thefe countries a philofophical and liberal excloange of the belt filh of France for thofe of which we wifh to be poffeffed."

Nature herfelf feems to point to the fuccefs of the fecond method. In many inflances, falmon and flurgeon have habituated themiclves to a frefh-water refi-
aliza-dence. Pallas diforered the fea.dig in the lake Bai-
icc. kal; and Liancourt found the herring in feveral of the rivers of North America. It likewife delerves to be remarked that the large plaife, travifiported from the Nordh fea to the ponds of Ealf Frielland, have increafed by myriads, and imparted great value to water which was formerly unprodutive.
"In the year 1799, (continues M. Nouel), I had the bonour of reading, in one of the fittings of the National Inflitute, a memoir on the mians and advantases of naturalizing the herring, a falt-waier finh, in the waters of the Seine, near its mouth, \&c. The account of the proceffes for accomplithing this end, which I there pointed out, are not fufceptiole of analyfis, and cannot, therefore, be introduced into this efliay; it will be fufficient for me to fay, that the report of Lacépète, Cuvier, and Teffier, was entirely in their favour. At Irefent, I am fill more convinced of the efficacy of the mezas which I then propofed; and I have no dou't that, if artificial ponds were formed on the edges of fivers, the experiment would be attended with complete fuccels. 'Every man, (fays Dr Franklin), who catches a filh, draws from the water a piece of money'. Let not the maxims and example of this philofopher be loft to pofterity; lei them rather produce fruit, like ftrong and vigorous feed fown in a fertile foil. KIaving obferved in New England, that the herrings alcended from the fea into one river of that country, while a
fingle indivitual was never ficen in another river. fena. rated from the former by a narrow tongur of land, ir . which communicated alfo with the fea, this pialofopher took the leaves of fome plants on which the herrings. had depofited their ova, already fecundated, and con. veyed them to the river which was deprived of the annual vilit of thefe filh. 'The fuccels of this experiment furpatied his expectations; the ova were completely productive; and the following vear the river was reopled with a numerous fhoal of herrings, which, fince that time, hare continued to frequent it.
" This futh is not the only one which I which to fce naturalized in frefl water ; to the herring I would add feveral fipecies of pleuroneches-alfo the mullet, guby, whiting, gar-filh, and perhaps, one or tivo fpeities of the gurnard. I would pay the greatel attention parible to the nature of the water proper for each fpecies. This happy choice is the principal condition, and that which could enfu:e fuccefs; but I would feleet in particular for this colonization, the fill found in lakes, which, though little known, are more numerous than is commonly fuppoied, and ought to be fo."

By the adoption of this plan, which is fufceptible of more ample developement, fociety would gain an increaled quantity of provifion, and the naturalift wo:ld multiply his opportunities of obfervation.

For the modes of preferving fin in cahinets, $e$ ee Presirving Fijh, nieans o!.

## EXPLANATION OF PLATES.

## Plate CCLXXIX.

Explanation of Terms.-a, (fig. 2.) pectoral fins; $b$, ventral fins; $c, c$, anal fins; $d$, caudal fin, or tail; $e, e, e$, dorfal fins; $f$, bony plates that cover the gills; $g$, branchiofegous rays and their membranes; $h$, lateral or fide line.

Fig. 1. Ansuilla Conger. Conger Eel.-Example of apodal fihes, in which the ventral fins are wanting. The launce or fand-eel, the wolf-filh, and fword-fifh, belong to this order.

Fig. 2. The Haddock, an example of jugular fifhes, in which the rentral fins $b$, are placed before the pectoral fins $a$. To this order belong the dragonet, the cod-fifh, the blenny, \&c.

Fig. 3. The Father-lafler, an example of thoracic fifhes, in which the ventral fins $n$, are placed beneath the petoral $b$; as in the bull's-head, the dory, the mack rel, the perch, \&c.

Fig. 4. The Minow, an esample of abdoninal fifhes, having the ventral fins $a$, placed behind the pectoral fins $b$. To this order belong the falmon, the herring, the carp, \&:c.

Fig. 5. The Dog-fint, an example of cartilaginons fintes, in which the mufcles are fupported by cartilages intlead of bouse, and which breathe by means of apertures placed near the neck inflead of gills; $a$ the lateral apertures.

Fig. 6. Gymnotus Electricus, Elętrical Gymnotus or Cramp-fifh.

Fig. 7. Trichinrus Lepturus, Silvery Trichiurus.

> Fig. 3. Anarchichas Lupus, Sea-wolf.
> Fig. 9. Odontognathus Aculeatus.
> Fig. 10. Ammodyles Tobianus, Sand-eel.
> Fig. 11. Ophidium Barbatum, Bearded Ophidium.

## Plate CCLXXX.

Fig. 12. Sternoptyx Diaphann, Tranfparent Sternoptyx.

Fig. 13. Leploccphalus Morrifii, Morris Launce.
Fig. 14. Stylephorus Chordatus, Chordated Stylephorus.

Fig. 15. Callionymus Dracunculus, Sordid Dragonet.
Fig. 16. Uranofcopus Scaber, Bearded Star-gazer.
Fig. 17. Trachinus Draco, Dragon Weever.
Fig. 18. Gadus Molva, Ling.
Fig. 19. Blennius Pholis, Smooth Blenny.
Fig. 20. Kurtus Indicus, Indian Kurtus.
Fig. 21. Echineis Remora, Indian Remora, or Longeft Sucking-fifh.

## Plate CCLXXXI.

Fig. 22. Coryphena Hippurus, Dolphin.
Fig. 23. Macrourus Rupeffris, Long-tailed Imminfer.
Fig. 24. Cothus Scorpius, Lafher, Bullhead, or 1\%-ther-laher.

Fig. 25. Scorprena Antenvata, Antennated Scorpaw.
Fig. 26. Zeus Faber, Common Dory.
Fig. 27. Pleuroneftes Plateffa, Plaile.
Fig. 28. Chretodon Rofraths, Beaked Chxtodon.
Fig. 29. Acanthurus Unicornus, Unicorn Acanthurus.

Fig. 30. Equis Atrericunus, American Knight-filh.
Fig. 31. Trichopus Salyrus, Satyr Trichopus.

## Plate CCLXXXII.

Fig. 32. Labrns Cyanopterus, Blue-finned Labrus.
Fig. 33. Sciena Unimaculuta, Single-Spotted Scirna.
Fig. 34. Perca Cernua, Ruffe, or Ruffe Perch.
Fig. 35. Gaftrofleus Spinachia, Fifteen-fined Stickleback.

Fig. 36. Mullus Aurifamma, Oriflamme Surmullet.
Fig. 37. Trachichthys Aufralis.

Fig. 38. Cobitis Ten:a, Spiny loche.
Fig. 39. Efox Aureo-siridis, Gold-green Pike.
Fig. 40. Exoccetus Volitans, Oceanic Flying-filh.

## Plate CCLXXXIII.

Fig. 4r. Ofracion Cornutus, Horned Trunk-fifa.
Fig. 42. Diodon Brevis, Short Sun-fifh.
Fig. 43. Centrijcus Scolopax, Snipe Centrifcus.
Fig. 44. Pegafus Draconis, Dragon Pegafus.
Fig. 45. Accipenfer Hufo, Ifinglafs Sturgeon.
Fig. 46. Squalus Canicula, Panther Shark.

## I N D E X.

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ICHTHYOLOGY.
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Tchthyo- ICHTHYOPHAGI, FISH-EATERS, a name given phagi,
Ichthyperia. to a peoule, or rather to feveral different people, who lived wholly on fifhes; the word is Greek, compounded of "xous, pifis, "filh," and Quyery, edere, " to eat."

The lclathyophagi fpoken of by Ptoleny are placed by Sanfon in the provinces of Nanquin and Xantong. Agatharcides calls all the inhabitants between Carmania and Gedrofia by the name Ichthyophagi.

From the accounts given us of the Ichthyophagi by Herodotus, Strabo, Solimus, Plutarch, \&c. it appears indeed that they had cattle, but that they made no ufe of them, excepting to feed their fif withal. They made their houfes of large fin-bones, the ribs of whales ferving them for their bcams. The jaws of thefe animals ferved them for doors; and the mortars wherein they pounded their fiff, and baked it at the fun, were nothing elfe but their vertebrse.

ICHTHYPERIA, an old term in Notural Hifory, which is applied by Dr Hill to the bony palates and

## I C O

mouths of fimes, ufually met with either foffile, in fin- lekenildgle pieces, or in fragments. They are of the fame fubftance with the butonitre; and are of very various figures, fome broad and ीhort, others longer and tlender; lome very gibbofe, and others plainly arched. They are likewife of various fizes, from the tenth of an inch to two inches in length, and an inch in breadtl.

ICKENILD-street, is that old Roman highway, denominated from the Icenians, which extended from Yarmouth in Norfolk, the eaft part of the kingdom of the Iceni, to Barley in Hertfordihire, giving name in the way to feveral villages, as Ickworth, Icklingham, and Ickleton in that kingdom. From Barley to Royfton it divides the counties of Cambridge and Hertford. From Ickleford it runs by Tring, crofles Bucks and Oxfordhire, paffes the Thames at Goring, and extends to the weft part of England.

ICOLMKIL. See Iona.
ICONIUM, at :refent Cogni, formerly the capitaI

## I C O [ 11 j $] \quad$ I C O

wroclaf- city of I.ycronia in Afia Mino-. St Paul coming to Icomium (Aहts xiii. 5 r. Aiv. 1. Eic.) in the year of Chrift 45, converted many Jews and Gentilcs there. It is believed, that in his firlt journey to this city, he converted St Thecla, fo celebrated in the writings of the ancient fathers. But fome incredulous Jews excited the Gentiles to rife againt Paul and Barnabas, fo that they were upon the point of offering violence to them, which obliged St Paul and St Barmabas to ?ly for fecurity to the neighbouring cities. St Paul undertcol a fecond jouney to Iconium in the year 5I; but we know no particulars of his journey, which relate peculiarly to Ićonium.

ICONOCLASTES, or ICONOCLAST庣, breakers of images; a name which the church of Rome gives to all who reject the ufe of images in religious matters.The word is Greek, formed from eixay imago, and上גas:ay rumpcre, "to break."

In this fenfe, not only the reformed, but fome of the eatern churches, are called Icomolafes, and efteemed by them heretics, as oppofing the womip of the images of God and the faints, and breaking their figures and reprefentations in churches.

The oppoftion to images began in Greece under the rcign of Bardanes, who was created emperor of the Greeks a little after the commencement of the eighth century, when the korfhip of them became common. See Image. But the tumults occafoned by it were quelled by a revolution, which, in 713 , deprived Bardanes of the imperial throne. The difpute, howerer, broke out with redoubled fury under Leo the Ifaurian, who ilwued outhn edict in the year 726 , abrogating, as forme fay, the worfhip of images, and ordering all the images, except that of Chrif's crucifision, to be removed out of the churches; but according to others, this edict only prohibited the paying to them any kind of adoration or worfhip. This edict occafoned a civil war, which broke out in the illands of the Archipelago, and by the fuggeftions of the priefts and monks, ravaged a part of Alia, end afterwards reached Italy. The civil commotions and infurrections in Italy were chiefly promoted by the Roman pontiffs, Gregury I. and II. Leo was excommunicated, and his hubjects in the Italian rrovinces violated their allegiance, and rifing in arms either maflacred or banifhed all the emperor's deputies and otficers. In confequence of thefe proceedings, Leo afembled a council at Conftantinople in 730, which degraded Germanus, the bithop of that city, who was a patron of images; and he ordered all the images to be publicly burnt, and inflicted a variety of fevere punifhments upon fuch as were attached to that idolatrous worhip. Hence arofe two factions; one of which adopted the adoration and worhip of images, and on that account were called iconoduli or icomalatre; and the other maintained that fuch worlhip was unlawful, and that nothing was more worthy the zeal of Chritians than to demoliih and deftray thofe flatues and pictures which were the occafons of this grofs idolatry; and hence they were diftinguifhed by the titles of iconomachi (frome suav image, and $\mu x \not y \infty$ I content,') and iconoclafler. The zeal of Gregory II. in favour of image worthip, was not only imiiated, tut even furpafied by his fucceffor Gregory 11 I. in conferguence of which the Italian provinces wore torn from the Grecian empire.

CorRantine, called Copronimus, from кәteg "ftes-
cus." "and evous " name," becaufe ine was faid to hare In mosta. defiled the facred font at his baptifm, fuccecued his father Leo ir 74 , and in 754 convened a council at Conftantinople, regarded by the Greeks as the ferenth cectumenical council, which folemnly condemned the worhip and wfe of images. Shofe who, notwithtanding this decree of the council, raifed commotions in the ftate, were feverely punifhed; and now laws were enacted, to fet bounds to the violence of monaftic rage. Leo IV. who was declared emperc: in 775 , purfued the fame meafures, and had recourfe to the cocrcive influence of penal laws, in order to extirpate idolatry out of the Chriftian church. Irene, the wife of Leo, poifoned her hurband in 780 ; affumed the reins of empire during the minority of her fon Conftantine, and in 786 fummoned a council at Nice in Bithynia, known by the name of the fecond Vicene council, which abrogated the laws and decrees againt the new idolatry, reftored the worftup of images and of the crofs, and denounced fevere punishments againft thofe who maintained that God was the only object of religious adoration. In this contelt, the Britons, Germans, and Gauls, were of opinion, that images might be lawfully continued in churches, but they confidered the worthip of them as highly injurious and offenfive to the Supreme Being. Charlemagne ditinguifhed himfelf as a mediator in this controverfy: he ordered four books conceraing images to be compofed, refuting the reafons urged by the Nicene bithops to juftify the worthip of images, which he fent to Adrian the Roman pontiff in 790 , in order to engage him to withdraw his approbation of the decrecs of the laft council of Nice. Adrian wrote an anfwer ; and in 794, a council of 300 billops, affembled by Charlemagne at Francfort on the Naine, confinned the opinion contained in the four books, and folemnly condemned the worthip of images. In the Greek church, after the banifhment of Irene, the controverfy cuncerning images broke out anew, and was carried on by the contending parties, during the haif of the ninth century, with various and uncertain fuccefs. The emperor Nicephorus appears upon the whole to have been an enemy to this idolatrous worthip. His fucceffor, Michael Curopalates, furnamed R/angabe, patronized and encouraged it. But the fcene changed on the accetfion of Leo the Armenian to the empire; who alfembled a council at Conftantinople in 814, that abolihed the decrees of the Nicene council. His fucceftor Nichael, furnamed Ba!bus, difapproved the worfhip of images, and his forl Theophilus treated them with great feverity. However, the emprefs Theodora, after his death, and during the minority of her fort, alfembled a council at Conftantinople in 842 , which seinftated the decrees of the fecond Nicene council, and encournged image worfhip by a law. 'Jhe council lield at the fame place under Photius, in 879 , and reckoned by the Greeks the eighth general council, confirmed and renewed the Nicene decrees. In commemoration of this council, a feftival was inflituted by the fuperftitious Greck: s, called the feaf of orthodox:y. The Latins were generally of opinion, that images might be fuffered as the means of aiding the memory of the faithful, and of calling to their remembrance the pious exploits and virtuous actions of the perfons whom they reprefented; but they detelted all thoughts of paying them the leaft
marks

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T:oncinatsmaris of religious homage or adoration. The coun$\|$ cil of Paris, aficmoled in 827 by Louis the Meek, rei:manditia folved to allow the ufe of images in the chuiches, but levercly prohibited rendering them religious wormip. Neverthelefs, towards the conclufion of this century, the Gallican clergy began to pay a kind of religious homage to the imases of faints, and their example was followed by the Germans and other mations. However, the Iconoclafts fill had their adherents among the Latims; the moft eminent of whom was Claudius bilhop of Turin, who, in 823, orderes all images, and eveis the crofs, to be caft out of the churches, and commited to the fames; and he wate a treatife, in which he declared both again? the ufe and worlhip of them. He condemned relicks, pilgrimages to the Holy I. and, and all voyages to the tombs of faints; and to his writings and labours it was owing, that the city of 'l'urin, and the adjacent country, was, for a long time after his death, much lefs infected with fupertition than the other parts of Europe. The controverfy concerning the fanctity of images was again revived by Leo bithop of Chalcedon, in the 11 th century, on occafon of the emperor Alcxius's converting the figures of filver that adorned the portals of the churches into money in order to fupply the evigencies of the flate. The bifhop obftinately maintained that he had been fuilty of lacrilege; and publifted a tucatife, in which he aftirmed, that in thele images there refided an inherent fanclity, and that the adoration of Chriflians ought not to be confined to the perfons reprefented by thefe images, but extended to the inages themfelves. The emperor affembled a council at Conftantinople, which detemined, that the images of Chrift and of the faints were to be lonoured only with a relative worfmip; and that invocation ard worfthin were to be addrefled to the faints only as the fervants of Chrift, and on account of their relation to him as their mafter. Leo, diffatisfied even with thefe ablurd and fupertitious decifions, was fent into bamilhment. In the wellern church, the worhip of images was difapproved and oppofed by feveral confiderable parties, as the Pe troboflians, Alligenfes, Waldenfes, \&c. till at length this idolatrous practice was entirely abolifhed in many pats of the Cbriftian world by the Rcfurmation. See Imace.

1CONOGRAPHIA (derived from tirav "image." and vespo " I deferibe), the defcription of imares or anciont flatues of narble and eopper; allo of bufts and femi-hufts, penates, paintings in frefeo, mofaic works, and aucie..t pieces of miniature.

ICONOLATRA, or Lonohatips (from zxay
 and iyrow "I ferve);" thofe who worhip images: A mame which the Icenoclaltes give to the fe of the Romifh communion, on account of their adoring images, and of rendening to them the wormip only due to Gud. See Ifonoclasts and Image.

ICOSAHEDRON, in Geomesry, a regular folid, confolling of so triangular pyranaid, whofe vertices mect in the centre of a fphere fuppofed to circumsferibe it; and therefure lase their l:cight and bafes equal: wherefore the Colidity of one of thefe pyrarsids multiplied by 20, the number of bafes, gives the forid contents of the icoranedron.

ICOSANDRIA (From suxare "twinty", and oureg
"? man or hufband") ; the name of the 12 his clafs in Linncus's fexual method, conifing of plants with hermaphrodite flowers, which are furnifhed with 20 or more flamina, that are inferted into the inner fide of the calyx or petals. See Bot.siry, p. ig2.

ICTINUS, a celebrated Greek architect who lived about $43^{\circ}$ B. C. built feveral magnificent temples, and among others that of Ninerva at Athens.

IDA, in Ancint Geograpliy, a mountain fituated in the heart of Crete where broadeft ; the highelt of all in the illand ; round, and in compals $6=$ ftadia (Strabo) ; the nurfing place of Jupiter, and where his tomb was vifited in Varro's time. - Another Ida, a mountain of Myfia, or rather a chain of mountains (Homer, Virgil), extending from Zeleia on the fouth of the territory of Cyzicus to Lectum the utnof promontory of Troas. The abundance of its waters became the fource of many rivere, and particularly of the Simois, Scamander, Æforus, Granicus, \&c. It was covered with green wood, and the elesation of its top opencd a fine extenfive view of the Hellefpont and the adjacent ccuntries; from which realon it was frequented by lle gods during the Trojan war, according to Homer. The toj was called Gargara (Homer, Sirabo) ; and celebrated by the poets for the judgment of Paris on the beauty of the three goddeffes, Minerva, Junc, ano Venus, to the laft of whom he gave the preference.

IDALIUM, in Ancicnt Croogrply, a promontory on the eaft fide of Cyprus. Now Capo di Griego; with a high rugged eminence rifing over it, in the form of a table. It was facred to Venus; and hence the epithet Idalia given her by the poets. The eminence was covered by a grove; and in the grose was a little town, in Pliny's time extinct. Indalia, according to Bochart, denotes the place or fot facred to the goddefs.

IDEA, the reflex perception of objects, after the original perception or impreffion has been felt by the mind. See Met.ipiysics, pafiom; and Logic, Part I.

1DENTITY, denotes that by which a thing is itfelf, and not any thing elle ; in which fenfe idenity differs from fimilitude, as well as dicerfity. See MIetaPHYSICS.

IDES, in the ancient Roman kalendar, were eight days in each montl! ; the firf of which fell on the 15 th of March, May, July, and October; and on the $13^{\text {th }}$ day of the other months. - The origin of the word is contefted. Some will lave it formed from isiov "to fee; " by reafon the full moon was commonly leen on the days of the ides: others from siöos "fpecies, figure," on account of the imace of the full moon then vinble: others from iduóium or ovis idulis, a name given by the Hetrurians to a victin offered on that day to Jupiter: others from the Hetrurian word iduo, i. e. divido; by reafon the ides divided the moon into two ricarly equal parts.

The ides came between the Karexids and tl.c Noxes; and were reckoned backwards. Thus they called the $14^{\text {th }}$ day of March, May, July, and Octuber, and the $: 2$ th of the other months, the pridic idus, or the day before the ides; the next preceding day they called the tertia idus; and fo on, reckoning always backwards till they came to the Noses. This method of rectoning time is fill retained in the chancery of

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Idioy. Roroe, and in the kalendar of the Ereviary. - The ides of $\mathbb{M a y}^{3}$ were confecrated to Mercury: the ides of Narch were ever eftecmed unhappy, after Cafar's murder on that day : the time after the ides of June was rechoned fortunate for thofe who entered into matrimony : the ides of Auguft were confecrated to Diana, and were obferved as a feaft day by the llaves. On the iues of September, auguries were taken for appointing the magiltrates, who formerly entered into their cfices on the ides of May, afterwards on thofe of March.

IDIOCI, a defeq of underftanding. Both idiocy and luary excufe from the guilt of crimes; (fee Crinif, par.ult.) For the rule of law as to lunatics, which m-ly alfo be eafily adapted to idiots, is, that fio riofus furore folum punitur. In criminal cales, therefore, iljuts and lunatics are not chargeable for their own acts, if committed when under thefe incapacities: no, not even for treafon itielf. Allo, if a man in his found memury commits a capital offence, and before arraignment for it he becomes mad, he ought not to he arraigned for it: becaule he is not able to plead to it wit! that advice ard caution that he ought. And if, after he has pleaded, the prifoner becomes mad, he thall not be tried : for how can he make his defence? If, after he be tried and found guilty, he lofes his fenfes before julgenent, judgment fhall not be pronounced; and if, affer judgment, he becomes of nonfane memory, execution hall be ftayed: for peradventure, fays the bumanity of the Englifh law, had the prifoner been of found memory, he might have alleged fomething in ftay of judgment or execution. Indeed, in the bloody reign of Henry VIII. a tatute was made, which enafted, that if a perfon, being compos nentis, flould commit hish tieafon, and after fall into madnefs, he might be tried in his ajfence, and Goulder fuffer death, as if he were of perfect memory. But this favage and inhuman law was repealed by the flatute 1 \& $2 \mathrm{Ph} . \& \mathrm{M}$. c. 10. For, as is ooferved by Sir Edward Coke, "the cxecution of an offender is for exmmple, ut pena ad palucss, meius ad omnes pervenict: but fo $\mathrm{i}_{\mathrm{i}}$ is not when a marman is executed; but thouic' be a miferable fpectacle, both againt latr, and of extcone inhumanity and cruelty, and can be no example to others." But if there be any doubt whether the party be compos or not, this fha!! be tried by a jury. And if he be fo found, a total idiocy, or abfolute infaniry, excufes from the guilt, ano of courfe from the punithment, of any criminal action conmitted under fuch deprivation of the fenfes; but if a lunatic lath lucid intervals of underftanding, he naall anfwer for wha the does in thole intervals, as if he had so deficiency. Yet, in the cale of abfolute madmen, as they are not anfwerable for their ackions, they fhould not be permitted the liberty of acting unlefs under. proper controul; and, in particular, they ought not to be fuffered to go loofe, to the terror of the king's \{ubjects. It was the docirine of uur ancient law, that perfons deprived of their realon might be confined till they recovered thcir fenfes, without waiting for the forms of a commilion or oiher fpccial authority from the crown; and no ", by the vagrant acts, a method is chalked out for irmpironing, chaining, and lending them to their proper hum*s.

The matrimenial coatract lisevile camot tale place
in a flate of idiocy. It was fommerly adjuized, that the iffue of an intu was Iegitimate, and lis mamiage valid. A tirnge determiatition! fince contint is abfolutely repaite to matrinony, and notilicr inuts nor lunatics are capable of conicning to any thing. And therefore the civil law jufged much more fenfibly, when it made fuch deprivations of reafor a previous impediment, though nut a caufe of divorce if they happened after marriage. And modern refolutions have arlhered to the fente of the civil law, by determining that the marriage of a lunatic, not being in a lucid interval, was ablolutely void. But as it might be difficult to prove the cxact flate of the party's mind at the actual celebration of the nuptials, upon this account (concurring with fome privaic family reafons*), © See $P_{1-}$ the ftatute 15 Geo. II. C. 30. has provided, that the vate afts, marriage of lunatics and perfons under phrenfies (if 23 Geo.II. found lunatics under a commifion, or committed to ${ }^{\text {c. } 6 .}$ the care of truftees under any act of parliament) before they are declared of found mind by the lord chancellor, or the majority of fuch truftees, fhall be tutally void.

Itios and perfons of nonfane memory, as well as infants and perfoas cinder durefs, are not totally difabled either to convey or purchafe, but fab modo only. For their conveyances and purchafes are voidable, but not actually void. The king indeed, on behalf of an idiot, may avoid his grants or other acts. But it hath been faid, that a non cumpos himfelf, though he be arterwards brought to a right mind, fhall not be permitted to allege his own infanity in order to avoid fach grant : for that no man flall be allowed to thupify himfelf, or plead his own difability. The progrefs of this notion is fomewhat curious. In the time of Edwatd I. nor: compos was a fufficient plea to void a man's own bond: and there is a writ in the regil?er fo- the alienor himfelf to recover lods aliened by him during his infanity; dum fuit non compos meritis fux, ut dicil, \&ic. But under Edward III. a Teruple began to arife, whether a man dhould be permitted to lilemi/b himelf, by pleading his own infanity; and, afterwards, a defendant in aflize having pleaded a releafe by the plaintis fince the lat contimance, to whish the plaintian st plied (ore tenus, as the manner then was) that he was out of his mind when be gave it, the court adivumed the allize; doubting, whether as the plaintif vias fane both then and at the commencement of the fuit, he thould be permitted to plead an intermedia:e deprisation of realon: and the queftion was afked, how he came to remember to releale, if out of his fenfes wher: he gave it? Under Henry VI. this vay of reafoning (that a man fhall not be allowed to difable himeclf, by pleading his own incapacity, becaufe he cannot know what lie did under fuch a fituation) was ferionlly adopted by the judges in argunsent; upon a quellio: whether the heir was barred of his right of entry by the fectirent of his infane anceftor? And from thefe loofe. authoritics, which Fitzlerbert does not fcruple to reject as being contrary to realon, the maxim that a man fhall not fultify himfelf, hath been handed down as fettled law: though lutcr opinions, fecling the inconvenicnce of the rule, have in many points endeavourcd to rellrain it. And, clearly, the nex: !.cir or other per.on interefted, may, aficr the deatly of the idiot or non compos, take adrantage of his incapacity and avoit

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the grait. And fo, too, if he purchafes under this difability $y_{\gamma}$ and does not afterwards upon recovecing lis ferfes agree th the pu:chafe, his heir maty cither waive or accept the effate at lis option. Ir: like manncr, an infart may wave fuct: purchafe or conveyance, when he comes to full age ; oi, if he does not then a atually anree to it, his heir may waive it after him. Perfons, : Ho, who purchafe o: convey under duefs, may aifirm or avoid !uch tranfaction, whenever the durefs is ceafcal. For all thefe are under the protection of the law; which will not fuffer them to be impofed upon through the imbecility of their prefent condition; fo that their acts are only binding, in cafe they be afterwards agreed to when fuch imbecility ceafes. Yct the guardians or commitees of a lunatic, by the fiatute 11 Geo. III. c. 20. are empowered to renew in his right, under the directions of the court of chancery, any leafe for lives or $y$ cars, and apply the profits of fuch renewal for the benerit of fuch lunatic, his heirs, or executors. See iesicy.

IDION, among grammarians, properly fignifies the peculiar genius of each language, but is often ufed in a fynonymous fenfe with dialect. The word is Greek, idsucu " propriety ;" formed of idos "proper, own."

IDIOPATHY, in Pluffic, a diforder peculiar to a ceriain part of the body, and not ariing from any preceding difeafe; in which fenfe it is oppofed to fympathy. Thus, an epilepfy is idiopathic when it happens merely through fome fault in the brain; and fvinpathetic when it is the confequence of feme other diforder.

IDIGSYNCRASY, among phyficians, denotes a peculiar temperament of body, whexeby it is rendered more liable to certain diforders than perfons of a different confitution ufually are.

IDIOT, or Ideot, in our daws, denotes a natural fool, or a fool from his bitth. See Idıocy.

The word is originally Greek, ioworus, which primarily impurts a private perfon, or one who leads a private life, without any hare or concern in the government of afmairs.

A perfon who has underflanding enough to meafure a yard of cloth, number tiwenty rightly, and tell the days of the week, \&c. is not an idiot in the eye of the law. But a man who is born deaf, dumb, and blind, is confidered by the law in the fame flate as an idiot.

Ibtot is alfo ufed, by ancient writers, fur a perfon ignorant or unlearned; anfivering to illieratus or imperitus. In this fenfe, Victur tells us, in his Chronicon, that in the confulthip of Meffina, the Holy Gofpels, by command of the emperor Analtaflus, were corrected and amended, as having been written by idiot evangelits: Tanquand ab idiotis cvangelifitis compofita.

IDLENESS, a reluctancy in people to be employed in any kind of work.

Idlenefs in any perfon whatfoerer is a high offence againft the public economy. In China it is a maxim: that if there be a man who does not work, or a woman that is idle, in the empire, fomebody mult fufier cold or hunger : the produce of the lands not being more than fufficient, with culture, to maintain the inhabitants; and therefore, though the idle perfon may flift off the want from himfelf, yet it mut in the
end fall fomewhcre. The court sllo of Arcopagus at
Athens punifhed idlenefs, and exerted a right of ce:aminAthens punifhed idlentes, and exerted a right of c:3min-
ing coery citizen ith what manner he fpent his time
the intention of which was, that the Athenians, known ing they were to give an account of their occupations, thould follow only fuch as were laudable, and that there might be no room left for fuch as lived by unlawful arts. 'The civil law expelled all furdy vagrants from the city; and, in our ow? law, all idle perfons or wagabonds, whom our ancient dlatutes defribe to be " fuch as wake on the night and fleep on the day, Blackf. and hatint cultomable taverns and ale-houfes, and routs Comysto about; and no man wot from whence they corac, ne whether they go;" or fuch as are more particularly defcribed by flatute 17 Geo. II. c. 5. and divided into three clafles, idle and diforder'iy perfons, rogues and vagabonds, and incorrigitle rogues; -all thefe are offenders again! the good order, and blemifhes in the government, of any kingdom. They are therefore all punihned, by the flatute laft mentioned; that is to fay, idle and diforderly perfons with one month's im. prifonment in the houfe of correction; rogues and ragabonds with whipping, and imprifonment not exceeding fis months; and incorrigible rogues with the like difcipline, and confinement not exceeding two years: the breach and efcape from which confinement in one of an inferior clais, ranks him among incorigible rogues; and. in a rogue (before incorrigible) makes him a felon, and liable to be tranfforted for feven years. Perfons harbouring vagrants are liable to a fine of forty flillings, and to pay all expences brought upon the parifh thereby : in the fame manner as, by our ancient laws, whoever harboured any fltanger for more than two nights, was anfwerable to the public for any offence that fuch his inmate might commit.

IDOL, in payan theology, an image, or fancied repreientation of any of the heathen gods.-This image, of whatever materials it confifted, was, by certain ceremonies, called confecration, converted into a god. While under the artificer's hands, it was only a mere Hatuc. Three things were neceflary to turn it into a god; pruper ornaments, confecration, and cration. The ornaments were various, and wholly defigned to blind the eyes of the ignorant and ftupid multitude, who are chiefly taken with flow and pageantry. Then followed the confecration and oration, which were performed with great folemnity amoug the Romans. Sec Inage.

IDOLATRY, or the wornip of idols, may be dillinguibhed into two forts. By the fril, men adore the works of God, the fun, the moon, the 'ftars, angels, diemons, men, and animals: by the fecond, men worfhip the work of their oun hands, as flatues, pictures, and the like: and to thefe may be added a third, that by which men have wornipped the true God under fenfible figures and reprefentations. This indeed may have been the cafe with refpect to each of the above kinds of idolatry; and thus the Ifraelites adorea God under the figure of a calf.

The flars were the firft objects of idolatrous worfhip, on account of their beauty, their intluence on the productions of the earth, and the regularity of their motions, particularly the fuil and moon, which are confidered as the molt glorious and refplendent images of the Deity : afterwards, as their fentiments became

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Hodary, more corrunted. t.ey began to form images, and to enIdomencus, tere:in the opaim, that by rirtue of confecration, the $\underbrace{-}$ gods were ca.itd down to inhabit or dwell in their ftatues. Hence Arnubius takes occafion to rally the Pagavis for guarding fo carcfully the fatues of their gods, wio, if they were really prefent in their images, might fave their worhippers the trouble of fecuring them from thieves and robbers.
As to the adoration which the ancient Pagans paid to the fatues of their gods, it is certain, that the wifer and more fenfible heathens connidered then only as iimple reprefentations or figures deligried to recal to their minds the memory of their gods. -This was the opinion of Varro and Seneca : and the fame fentiment is clearly laid down in Plato, who maintains, that images are inanimate, and that all the honour paid to them has refpect to the gods whom they reprefent. But as to the vulgar, they were ftupid enough to believe the itatues themfelres to be gods, and to pay divine worthip to flocks end ftones.

Soon after the flood, idolatry feens to have been the prevailing religion of all the world: for wherever we call our eyes at the time of Abraham, we fcarcely fee any thing but fale worthip and idolatry. And it ap. pears from Scripture, that Abralam's forefathers, and even Abraham himfelf, were for a time idolaters.

The Hebrews were indeed expreffly forbidden to make any reprefentation of God: they were not fo muc's as to look uporiz an idol: and from the time of the Maccabees to the deftruction of Jerufalem, the Jews extended this precept to the making the figure of any man : by the law of Notes, they were obliged to deftroy all the images they found, and were forbidden to apply any of the gold or filver to their own ufe, that no one might receive the leaft profit from any thing belonging to an idol. Of this the Jews, after they had frnarted for their idolatry, were fo fenfible, that they thought it unlawful to efe any velfel that had been employed in facrificing to a falfe god, to warm themfelves with the wood of a grove after it was cut dorm, or to fhelter themfelves under its flade.

But the preaching of the Chrittian religion, whereever it prevailed, entirely rooted out idolat:y; as did alfo that of Mahomet, which is built on the worhip of one God. It mult not, however, be forgotten, that the Protelant Chrifians charge thofe of the church of Rome with paying an idolatrous kind of worihip to the pictures or images of faints and martyrs : before thefe they burn lamps and wax candles; before thefe, they burn incenfe, and, kneciing, offer up their vows and petitions; they, like the Yagans, believe that the faint to whom the image is dedicated, prefides in a particular manner about its thrine, and works miracles by the intervention of its image; and that if the image was deffroyed or taken away, the faint nould no longer perform any miracle in that place.

IDONENEUS, in fabulous hifory, fucceeded his iather Deucalion on the throne of Crete. He accompanied the Greeks to the Trojan war with a fleet of 90 thips. During this celebrated war he rendered himfelf famous by his valour, and flaughtered many of the enenyy. At his return from the Trojan war, he made a vow to Neptunc in a dangerous tempeft, that if he
efcaped from the fury of the feas and Itorms, he woald offer to the god whatever living creature firlt prefented itfelf to his eye on the Cretan Iloore. This was no other than his fon, who came to congratulate his father upon his fafe return. Idomeneus performed his promilic to the god; and the inhumanity and rafhnefs of this facrifice rendered lim fo odious in the eyes of his fubjeats, that he left Crete, and migrated in quelt of a fettlement. He came to Italy, and founded a ci:y on the coalt of Calabria, which he called Salcutum. Hc died in extreme old age, after he had had the fatisfaction of fecing his new kingdom flourilin and his fubjects happy. According to the Greek Ccholiall of Lycophron, v. 1217, Idomeneus, during his abfence in the Trojan war, intrufted the management of lis kingdom to Leucos, to whom he promifed his daughter Clifithere in marriage at his return. Leucos at firt governed with noderation, but he was perfuaded by Nauplius king of Euboea to put to death Meda thes wife of his matter, with her daughter Clifithere, and to feize the kingdom. After thefe violent meafures he Arengthened himfelf on the throne of Crete, and Idomeneus at his return found it impofible to expel the ulurper.

## IDUMIたA. See Edonr.

JEALOUSY, in Ethics, is that peculiar uneafinefs which arifes from the fear that lome rival may rob us of the affection of one whom we greatly love, or fufpicion that he has already done it. The firt fort of jealoufy is infeparable from love, befure it is in polietlion of its object ; the latter is often unjuf, generally mifchievous, always troublefome.

Waters of ykazousr. See Waters.
IDYLLLON, in ancient poctry, is only a diminutive of the word EiDos, and properly fignifies any poen of moderate extent, without confidering the fubject. But as the collection of Theocritu's poems were called Idyllia, and the paltoral pieces being by far the beft in that collection, the term Idyilion feems to be now appropriated to paftoral pieces.

JEARS or Geers, in the fea language, an affemblage of tackles, by which the lower yards of a thip are hoitted along the maft to their ufual flation, or lowered from thence as occation requires: the formes of which operations is called fieaying, and the latter Ariking.

JEBUS 2 E , one of the feven ancient peoples of Canaan, defcendants of Jebufi, Canaan's fon; fo warlike and brave, as to have ftrood their ground, efpecially in Jebus, afteiwards called Gerufalem, down to the time of David, Judges i. 21. I Sam. ‥ 6.
JEDBURGH, a pariament town of Scoiland, capital of Tiviotdale or Roxburghhire, is fituated uearly in the middle of the county, on the banks of the river fed, whence it derives its name. It is well 'suilt and populous, and has a good market for corn and cattle. On the weft fide of the river, near its junction with the Teviot, ftand the beatuiful ruins of an whey founded by David I. a part of which ancient titc. .iil ferves for a parilh church.-Jedburgh is ti:e seat of the fheriff's court and of a preflyytery. The posulation of this town in 1793 was eftimated at 2000.

JEDDO, the capital town or city of the illands of Japan, where the emperer relides. It is open on all fides, baving neither walls nor ramparts; and the houles,

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Tit tima houes are bailt with canth, and boarded on the outfinc ou pevent the rain from celtenyin the walls. In every treet there is an iron gate, which is thut up in the the night ; and a kind of callomhoufe or magazine, to put merchandites in. It is a large place, being withe ro iles in length. and fi.x in breadth, and contains $1,000,000$ of inhabitants. A fire happened in 1658 , which, in the fpace of 48 hours, burnt down 100,000 houfs, and in which a valt number of inhabitants perithed. The emperor's palace and all the reft were reduced to athes; but they are all rebuilt again. The royal palace is in the middle of the town; and is defended with walls, ditches, towers, and battions. Where the emperor refides, there are three towers nine Itories high, each covered with plates of gold ; and the hall of audience is faid to be fupported by pillars of matly gold. Near the palace are feveral others, where the relations of the emperor live. The emprefs has a palace of her own, and there are 25 fimall ones for the concubines. Befides, all the vaffial kings have each a palace in the city, with a handfome garden, and fables for 2000 horfes. The houfes of the common fort are nothing but a ground floor, and the rooms are parted by folding fcreens; fo that they can make the rooms larger or fimaller at pleafure. It is feated in an agreeable plain, at the bottom of a fine bay; and the river which croffes it, is divided into feveral canals. E. Long. ${ }^{140 . O}$ N. Lat. 35. 32.

JEFFERSONIA, in Botamy, a genus of plants beloncing to the clafs pentandria, and order monogynia. The calyx is compoled of five fhort oval imbricated leaves ; the corolla is monophyllous and funnel-1haped; the margin hypocrateriform; the ftigma is quadrifid. One fpecies only has been difoovered, fimpervirens, which is a flrub with round, polifhed, Mhining fems, which climb on bufhes and fmall trees. This flarub is very abundant in the woods of Georgia in North America, where it was difcovered by Dr Brickel, and it is coucred with blofioms for many months of the year.

IEffery. See Gfoffrey.
jeffreys, Sir George, Baron Wem, common1y called Gudse Yeffreys, was the fixth fon of John Jeffreys, Efq. of Acton in Denbighfhire ; and was edueated at- Wefminfler fchool, whence he removed to the Inner Temple, where lie applied himfelf to the furdy of the law. Aldernann Jefreys, who was probably related to him, introduced him among the citizens of London, and he being a merry bottle companion, foon came into great bufneff, and was chofen their recorder. He was afterward's chofen folicitor to the duke of York; and in 1680 was knighted, and made thiefjullice of Cheller. At length, refigning the recorder hip, he obtained the pofl of chiefjuftice of the King's-t ench, and, foon after the acceffion of James II. the great fcal. During the reign of King Charles 11. he thowed himfelf a bitter enemy to thofe diffenting miniflers "ho, in that time of perfecution, were tried ty him : he rras one of the greatell advifers and pros.ctere of all the oppreflions and arbitrary meafures carried on in the reign of James II.; and his fanguitary and inhuman proceedings again Monmouth's unhapy achcrents in the weft will ever render his name infamous. Whenever the prifoner was of a difficent fart, or he cculd pleafe the court by condemning him,
inftead of appearing, according to the duty of his oflice, as his counfel, he would fcarce allow him to fpeak for himfelf; but would load him with the groffelt and moft vulgar abufes, browbeat, infult, and turn to ridicule the witneffes that fpoke in his behalf; and even threaten the jury with fines and imprifonment, if they made the lealt hefitation about bringing in the prifoner guilty. Yet it is faid, that when he was in temper, and matters perfeety indifferent came before him, no one became a feat of juffice better. Nay, it even appears, that, when he was under no flate infuence, he was fometimes inclined to protect the natural and civil rights of mankind, of which the following inftance has been given:-The mayor and aldermen of Briftol had been ufed to tranfport convicted criminals to the American plantations, and fell them by way of trade. This turning to good account when any pilferers or petty regues were brought before them, they threatened them with hanging; and then fome officers who attended, earnefly perfuaded the ignorant intimidated creatures to beg for tranfportation, as the only way to fave them; and in general their advice was followed. Then, without more form, each alderman in courle took one, and fold him for his orrn benefit; and fometimes warm difputes arofe between them about the nest turn. This infamous trade which had been carried on many years, coming to the knowledge of the lord chief juftice, he made the mayor defcend from the bench and ftand at the bar, in his fcarlet and fur, with his guilty brethren the aldermen, and plead as common criminals. He then obliged them to give fecurities to anfwer informations; but the proceedings were flopped by the Revolution.-However, the bristality Jeffreys commonly fhowed on the bench, where his voice and vifage were equally terrible, at length expofed him to a fevere mortification. A frivener of Wapping having a caufe before him, one of the opponent's counfel faid he was a ftrange fellow, and fometimes went to church, and fometimes to conventicles; and it was thought he was a triminer. At this the chancellor fred: "A trimmer" (faid he); I have heard much of that monfter, but never faw one. Come forth Mr Trimmer, and let me fee your thape." He then treated the poor fellow fo roughly, that, on his leaving the hall, be declared te would not undergo the terrors of that man's face again to fave his life, and he fhould certainly retain the frightful impreffions of it as long as he lived. Soon after, the prince of Orange coming, the lord chancellor, dreading the public refentment, difguifed himfelf in a feaman's drefs, in order to leave the kingdom; and was drinking in a cellar, when this frrivener coming into the cellar, and feeing again the face which had filled him with fuch horror, ftarted; on which Jeffreys, fearing he was known, feigned a cough, and turned to the wall with his pot of beer in his hand. But Mr Trimmer going out, gave notice that he was there : and the mob rufling in ceized him, and carried him before the lord mayor, who fent him with a ftrong guard to the lords of the council, by whom he was committed to the Tower, where he died in 1689. It is renatkable, that the late countefs of Pomfret met with very rude infults from the populace on the weflern road, only becaufe fle was granddanghter to the inhuman Jeffieys.

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Jehovah

JEHOVAH, otie of the Scripture names of God, fignifying the Being who is felt-exiftent and gives exiftence to others.

So great a veneration had the Jcws for this name, that they left off the cuftom of pronouncing it, whereby its true pronunciation was forgotten. They call it eetragraminaton, or "the name with four letters; and beliere, that whoever knows the true pronunciation of it cannot fail to be heard by God.

JEjuNE style. See Stile.
JEJUNUM, the fecond of the fmall guts; thus called from the Latin jejunus, "hungry," becaufe always found empty. See Anatomy, $\mathrm{N}^{\circ} 93$.

JELLALÆAN, or Gelaleas Colendar, Epocla, and Year. See Calemdar, Epocha, and Year.
JELLY, a form of food, or medicine, prepared from the juices of ripe fruits, boiled to a proper confiftence with fugar ; or the flrong decoctions of the horns, bones, or extremities of animals, boiled to fuch a height as to be ftiff and firm when cold, without the addition of any fugar.-The jellies of fruits are cooling, faponaceous, and acefcent, and therefore are good as medicines in all diforders of the primæ viæ, arifing from alkalefcent juices, efpecially when not given alone, but diluted with water. On the contrary, the jellies made from animal fubitances are all alkalefcent, and are therefore good in all cafes in which an acidity of the humours prevails: the alkalefcent quality of thefe is, however, in a great meafure taken off, by adding lemon juice and fugar to them. There were formerly a fort of jellies much in ufe, called compound jellies; thefe had the reftorative medicinal drugs added to them, but they are now fcarce ever heard off.
frlir-Oat, a preparation of common oats, recommended by many of the German phyficians in all hectic diforders, to be taken with broth of fnails or cray fin.-It is made by boiling a large quantity of oats, with the hulk taken off, with fome harthorn fhavings, and currants, together with a leg of weal cut to pieces, and with the bones all broken; thefe are to be fict over the fire with a large quantity of water, till the whole is reduced to a fort of jelly; which when flrained and cold will be very firm and hard. A few fpoonfuls of this are to be taken every morning, diluted with a bafon of either of the above mentioned broths, or any other warm liquor.

JEMPTER LAND, a province of Sweden, bounded on the north by Angermania, on the eaft by Medalpadia, on the fouth by Helingia, and on the well by Norway. It is full of mountains; and the principal to:orns are Reflundt, Lich, and Docra.

JENA, a ftrong town of Germany, in the circle of Upper Saxony, and in Thuringia, with an univerfity. I: is feated on the river Sala, in E. Long. 12.4. N. Lat. er. 0.
JENCAPORE, a town of Afia, in Indollan, and in the dominions of the Great Mogul, capital of a territory of the fame name. It is feated on the river Chaul, in E. Long. 76. 25. N. Lat. 30. 30.

IENCOPING, a town of Sweden, in the province of Smaland, feated on the fouth fide of the lake Werter, with a frong citadel. The houfes are all built with wond. E. Long: 14. 2J. N. Lat. 57.22.

IENISA, a river of the Runian empire that runs Vol., XI. Part I.
from nortin to fouth through Siberia, and falls into the Frozen ocean.

JENISKOI, a town of the Ruffian cmpire, in Si beria, feated on the river Jenifa. It is large, populous, and pretty ftrong; and there are villages for feveral miles round it. It is fubject to the Tungufians, who are Pagans, and live chiefly on the above river. They pay a rribute to the emperor for every bow, reckoning a man ard a woman for one. The climate is extremely cold; and no other fruits grow there but black and red currants, Atrawberries, and goofeberries. Corn, butchers meat, and wild fowls, are very cheap. E. Long. 92. 35. N. Lat. 57. 46.

## jenkins, Henry. See Longevity.

Jenkins, Sir Leoline, a learned civilian and able fatefman of the 17 th century, born in Glamorganthire about the year 1623 . Being rendered obnoxious to the parliament during the civil war by adhering to the king's caufe, he confulted his fafety by flight; but returning on the Refloration, he was admitted an advocate in the court of arches, and fucceeded Dr Exton as judge. When the queen mother Henrietta died i: 1669 at Paris, her whole eftate, real and perfonal, was claimed by her nephew Louis XIV. : upon which $\mathrm{Dr}_{r}$ Jenkins's opinion being called for and approved, he went to Paris, with three others joined with him in 2 commiffion, and recovered her cffects; for which he received the honour of knighthood. He officiated as one of the mediators at the treaty of Nimeguen, in which tedious negociation he was engaged about four years and a haif; and was afterwards made a privy counfellor and fecretary of flate. He died in 1685 ; and as he never married, bequeathed his whole eflate to charitable ufes: he was fo great a benefactor to Jefus College, Oxford, that he is generally looked on as the fecond founder. All his letters and papers were collected and printed in $1_{7} 2_{4}$, in two vols. folio.

JENNY wren, a name given by writes on fong birds to the wren. See Wren, Ornithology Index.

JENTACULUM was, among the Romans, a motning refrelhment like our breakfatt. It was exceedingly fimple, confifting, for the mell part, of bread alone ; labouring people indeed had fomcthing more fubftantial to enable them to fupport the fatigues of their employment. What has been here faid may be obferved of the Jews and Chrittians alfo. The Greeks diftinguifhed this morning meal by the feveral names
 generally applicd to dinner. Sec Eating and Dinner.

JENYNS, Soame, a ditinguilhed Englifh writer, was born in Great Ormond-ftreet, London, in the year 1703-4. Sir Koger Jenyns, his father, was defcended from the family of the Jenyns of Churchill in Somerfethire. The country refidence of Sir Roger was at Ely, in the ine of the fame name, where he turned his attention to fuch kinds of bufineís as rendered him moft beneficial to his neighbours, for which amiable deportment in particular the honour of knighthood was conferred upon him by William III. Our author's mother, a lady of rank, learning and piety, fuperintended his cducation till it was neceffary to place him under a tutor, for which purpofe a Mr Hill was talien inze the family, by whom he was infructed in the firf rudiments of language, with fuch other branches of knowledge as were fuited to his years. At this tinac M:

Jenilinoe
Jenyn:-

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jenyns. Hill was c:alled io a fituation more advantageous, and a Mr White fucceeded him in the office of tutor to young Jenyns, a man eminent for his learning, talle, and ingenuity, by whom he was qualified for attending the univerlity.

He was admitted into St Joln's College, Cambridge, in the year 1722. under Dr Eidmondfon, who was at that time one of the leading tutors of the college. Here his diligence and regular deporment did him the greaiell honour, and the ftrict dilcipline obfersed in the college was perfectly agreeable to his natural inclinations. Ater quitting the college, his winter refidence was in London, and he lived in the comntry during the fumme: feafon, being chiefly employed in the profecution of fuch ftudies as were of a literary nature. His firt publication, a poetical effay on the art of dancing, appeared withont his name in $17^{27}$; but he was very foon difcovered, and it was confidered as a prefage of his future eminence.

Soon after the death of his father, he was chofen in 1742 one of the members of parliament for the county of Cambridge, and from this period he retained his feat in the houfe of commons till the year 1780 . The high onin a ent-rtained by tis contituents of his parlianentary conduct, may be learned from the unanimi$t y$ of their choice: for he never but once experienced any oppofition. He was chofen one of the commitioners of the board of trade and plantations in 1755 , which office he retsined ti!i an alteration was made in the conflitution of it by authority of parlament. He was married, firlt to the only daughter of Colonel Soame, of Dereham in Norfoll:, who died without iflue, and afterwards to the daughter of Henry Gray, Eiq. of Hackney, who furvived him. He died himelf of a fever, afrer a few days illnefs, on the 18 th of Decensber, i $^{787}$, leaving no iffue.

His temper was mild, fweet, and gentle, which he manifefled indifcriminately to all. It was his earneft with never to give offence to any; yet he made fuch liberal allowances for diverfities of temper, that be was very rarely offended with others. He was punctual in the difcharge of the duties of religion both in public and private, profefling to be better plealed with the government and difcipline of the church of England inan of any other in Chriftendom, which, however, he confidered as capable of important alterations and amendments, if it were previoully and deliberately determined what thefe alterations thould be. He poffeffed an uncommon vein of the moft lively and genuine wit, which be never made ufe of to wound the feelings of othere, but was rather very much offended with thofe wo did, being convinced that cillinguifhed endowments of the mind are as much intended to promote the felirity of others, as of thofe who poffefs them.

No man was ever a more genuine philanthropift, as he feli moft fenfibly for the riferies of others, and ufed cevery mean in lis rover to render them as happy as poffible. His indigent neighbours in the country he viewsed as a part of his family, in which light he confidered them as entitled to his care and protection. As ân atithor, Soame Jenyns certainly referses a place among thofe who have excelled, whether we view him as a poet, or a writer of profe, in which latter rapacity l.e ranks with the pureft and mos. correct writers of the English language. He reafons with clufeners and pre-
cifion, and comes to the conclufion he mears to eita. blith by a regular chain of argument. His firn publication on account of which he was attacked, was his Free lr.quiry into the Niture and Origin of Evil ; but in a preface to the fecond edition he fully vindicated it againtl all the calumny, flander, and mifreprefentation which had been thrown out againft it, with that temper and moderation which ditinguibed him fo eminently upon all occafions. His riew of the Internal Esidences of the Cariftian Religion was publilhed without his name in the year 1776 , which gave delight and fatisfaction to many eminent judges, and made converts of numbers who had been infidels before.

JEOFAlLE, (cumpounded of three French words, J'ry faille, "I have failed"), a tem in la $\%$, ufed for an overfight in pleading or other proceeding at law.

The fhowing of thele defects or overfights was formerly often practifed by the counfel; and when the jury came into court in order to try the iflue, they faid, This inqueft ycu ought not to take; and after verdift they would fay to the court, To judgment you ought not to go. But fereral llatiies have been made to avoid the delays occafioned by fuch fuggeftions; and \& judgment is not to be fayed after rerdict for miftaking the Christian or furname of either of the parties, or in a fum of money, or in the day, month, yea:, \&c. where the fame are rightly named in any preceding record.

JEPHTHAH, judge of Ifrael, and fucceflor to Jair in the government of the pcople, was a native of Mizpeh, and the ton of one Gilead by a harlot. This Gilead having married a lawful wife, and had children by her, thefe children drove Jephthah from his father's houfe, faying that he thould not be *eir with them. Jephthah retired into the land of Tub, and there he became captain of a band of thieves and fuch cther people as he hao picked up together. At that time, the Ifraelites beyond Jordan, feeing themfelves prafied by the Anmonites, came to defire alliftance from Jephtial2 ; and that he would take upon him the command of them. Jephthah at firf reproached them with the injuftice which they had done him, or at leatt which they had not preverited, when he was forced from his father's houfe. But as thefe people were very earmeit in their requent, he told them, thet he would fuccour them, provided that at the end of the war they would acknowledge him for their prince. This they confented to, and promifed with an oath.

Jephthah, in the year of the world 2817, havirg been acknowledged prince of the Ifraelites in an aftembly of the people, was filled with the fuirit of God, and began to get his troops together; to that end, he went over all the land which the children of Ifrael poffeffed beyond Jordan. At the fame time lie made a vow to the Lord, that if he were fuccefoful againtt the Ammonites, he rould offer up for a burnt-ofiering whatever flould finlt come out of his houfe to meet him. The battle being fought, Jephthah remained conqueror, and ravaged a!l the land of Ammon. But as he returned to his houle, his only daughter came out to meet hin with timbrels and with dances: whereupons Jephthah tore his clothes, and faid, "Alas, my daughter, thou haft brought me very low, for I have made a vow unto the Lord, and camot fail in the perSormance of it." His daughter anfwered, "My fa.
ther,

Jephith ther, if thou haft made a vow unto the Lore, do with II. Jetes inin. me as thou ha!t promifed; grant me only the faveur that 1 may be at inherty to go up to the mountains, and there for 110 mosihs berraii my virginity with my companions." Jephehala granted her this liberty a and at the end of two months, lie nflered up his datightier, who died a viesir, a burnt-offering, agreeable to his row, according to the opinion of molt commentators. In the mean time, the Ephraimites, jealous of the rictory cbiained by Jephthah over the Ammonites, palled the river Jordan in a tumultuous manner, came and complaried to Jephthah that he had not invited shem to this war, and threatened to fet fire to his Boule. Jephithah anfwered them, that he had fent to delire their aifitance : bits diberving that they did not come, he put lis life in his hands and hazarded a battle. The E.jhramites not being fatisfed with thefe reafons, Jeph:liah affembled the people of Gilead, gave them battle, and defeated then; fo that there were two and forty thoufand men of the tribe of Ephraim killed that day. The know noting more in particular concerning the dife of Jephthah, orly that he judged Ifrael fix years, and was buried in a city of Gilead.

St Paul (Heb. xi. 32.) places lephthath among the fain:s of the Old Telldment, the merit of whofe fait's difinguifled them. But it mult ke obferved, that there is fomething fo extraordinary in Jephthah's vow, that nutwihftanding the Scripture fpeaks of it in very plain and clear terms, yet fuch dificulties arife concerning it as perplex commentators. Some maintain, that this daugliter of Jephthah was not facrificed, as that would have been a violation of the law of Mofes; and efpecially, when by the fame law he might have redeen ed his daughter for ten thekels of filser : therefore they contend, that it was fomething elfe Jephthah did to his daughter, fuch as devoting her to a flate of celibacy, or dedicating her to the fervice of God. On the other hand, thofe who maintain the affirmative, or that Jephthah's daughter was aifually facrificed, urge, that the times wherein Jephthah lived were fadly addicted to idolary ; alfo the manner wherein he lived before he was called to the affiliance of his country ; but abose all, the clear, evident, and exprefs meaning of the text. They obferve, that vows of perpetual virginity are inflitutions of a modern date; and had there been no more in it, there would have been little occafion for rending his clothes, and bemoaning himfelf as he did; befides the bitter lamentations made by herfelf, and by all the daughters of Ifrael in fucceeding times. But if She was facrificed, we may fafely and confidently aver with Jofephus, who fays that fhe was, that this facrifice was neither lawful nor acceptable to God ; but, on the contrary, an abominatle crime, that might, notwithitanding, liave procecded from a mifaken principle of relicion.

JERBOA, a fpecies of quadruped belonging to the ger us dipus, and refembling in fome of its characters, the munle tribe. Ste DIrus, Mammalia Index.

JEK FMIAH (the Prophecy of ), a canonical book of the O'd Tellament. I his divine writer was of the sace of the prieffs, the fen of Hilkiah of Anathoth, of the tribe of Benjumin. He was called to the prophetic offce when very young, about the 13 th year of Jofiah, and contin ued in the difcharge of it about 40 years. He was nut carred captive to Babyion with the other

Jerrs, bu: remained in Judea to lamert the defol.ttion Jermin in of his country. He waiv atterwards a puitoner in E- Jertio. gypt witls his difciple Baruch, where it is fu,poled lic died in a very advanced age. Some of thee Cheriftian fathers tell us he was lloned to death by the lews, fo: preaching againft their iclolatry ; and fome fay he was fut oo death by Pharsols Hophrah, becaste of his pros phecy againt him. Part of the prophecy of Jeremiar relates to the time after the cajtivity of lirach, and before that of sudah, from the fint chapter to the ath ; and pari of it was in the time of the latter captivity, from the $44^{t h}$ chapier to the and. The proplict lay, open itce dins of juda! with great freedom and boldncfs, and reminds them of the levere judgments wkicis had befallen the ter tribes for the tan.c alferees. He falfionately laments their mivfurtune, and reonmmends a fpeedy reformation to them. Afterwards he predicls the grievous calamities that were approaching, par:icularly the 70 years captivity in Chaldea. He like wile foretels their deliverance and happy return, and the recompenie whicls Bay whon, Rioab, and othe: enemies of the Jews, thould meet with in due time. There are likewife leveral intimations in this prophecy concerniag the kingdom of the Mielfiah; aifo feseral remarkable vilions, and types, and hittorical faflages relating to thofe times. The 52 d chapter does $\mathrm{n}: \mathrm{u}$ belong to the prophecy of leremiah, but proleably Was added by Ezra, and contains a narrative of the taking of Jerufalem, and of what happened during the captivity of the Jews, to the death of Jechomias. St Jerome has oblerved upon this prophet, that his Atyle is more eafy than that of Ifaiah and Hofea; that he retains lomething of the rufticity of the village where he was born; but that he is very learned and majeffic, and equal to thofe two prophets in the fenfe of his prophecr.

JERICHO, or Hierichus, in Ancient Geography, a city of Judea; fituated between Jordan and Jerufalem, at the ditance of 150 tladia from the latter, and 60 from the former. Jofephus fays, "the whole fpace from Terufalem is defert and rocky, and equally barren and uncultivated from lericho to the lake Aphalites; yet the piaces near the town and above it are extreniejy fertile and delicious, fo that it may be jufly called a divine flain, furpalling the reft of the land of Canaan, no unfruifful country, and furrounded by hills in the manner of an amphitheatre. It produces opobalfamum, myrobalans, and dates; from the laft of which it is called the city of palmtrees, by Moles. The place is now called Raha; and is fituated, M. Yolney informs us, "in a plain fix or feven leagues long, by three wide, around which are a number of barren mountains, that render it extremely hot. Here formerly was cultivated the balm of Mecca. From the defcription of the Hadjes, this is a llirub fimilar to the poinegranate tree, with leaves like thole of rue: it bears a pulpy nut, in which is contained a kernel that yitlds the refinous juice we call halm or balfam. At prefent there is not a plant of it remaining at $K a l_{i a}$; but another fpecies is to be found there, called aakkoun, which produces a fweet oil, alfo celebrated for healing wounds. This zakkoun refembles a plumtree; it has thorns four inches long, with leaves like thofe of the olive tree, but narrowner and greener, and prickly at the end; its fruit is a kind of acorn, with.

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ferimui... out a calyx, under the bark of which is a pulp, and Jerome. then a nut, the kernel of which gives an oil that the

A arabs fell very dear; this is the fole commerce of Raha, which is no more than a ruinous village.

JERIMOTH. See Jarimuth.
JEROME, ST, in Latin Hieronymus, a famous doctor of the church, and the mont learned of all the Latin fathers, was the fon of Eufebius; and was born at Stridon, a city of the ancient Pamonia, about the year 340. He ftudied at Rome under Donatus, the learned grammarian. After having received baptifm, he went into Gaul, and there tranicribed St Hilary's book $d e$ Synoris. He then went into Aquileia, where he contracled a friendihip with Heliodorus, who prevailed on him to travel with him into Thrace, Pontus, Bithynia, Galatia, and Cappadocia. In 372 St Jerome retired into a defert in Syria, where he was perfecuted by the orthodox of Melitius's party, for being a Sabellian, becaufe he made ufe of the word Hypofinfis, which had been ufed by the council of Rome in 369 . This obliged him to go to Jerufalem; where he applied himfelf to the fudy of the Hebrew language, in order to receive a more perfect knowledge of the Holy Scriptures; and about this time he confented to be ordained, on condition that he fhould not be confined to any particular church. In $3^{81}$, he went to Conftantinople to hear St Gregory of Nazianzen; and the following year returried to Rome, where he was made fecretary to Pope Jamafus. He then influcted many Roman ladics in piety and the knowledge of the fciences, which expoled him to the calumnies of thofe whom he zealpunly reproved for their irregularities; and Pope Siricius not having all the efteem for him which his learning and virtue jufly entitled him to, this learned doctor left Rome, and returned to the monaftery of Bethlehem, where he employed himfelf in writing againft thote whom he called horetics, efpecially againt Vigilantius and Jovinian. He had a quarrel with John of Jerufalem and Rufinus about the Origenifts. He was the firtt who wrote againft Pelagius; and died on the 3oth of Septenber 420 , at about 80 years of age. There have been feveral editions of his works; the laft, which is that of Verona, is in 11 vols. folio. His principal works are, 1. A Latin verfion of the Holy Scriptures, diftinguithed b; the name of the Vulgate. 2. Commentaries on the Plophets, Ecclefiaftes, St Matthew's Gofpel, and the Epilles to the Galatians, Ephefians, Titus, and Philemon. 3. Pulemical treatifes againf Moutanus, Helvidius, Jovinian, Vigilantius, and Pelagius. 4. Several letters. 5. A treatife on the lives and mritings of the ecclefiaftical authors who had flourifhed before his time.-St Jerome's Ayle is lively and animated, and fometimes fublime.

Jerome of Prague, fo called from the place of his birth, in Bohemia. He was neither a monk nor clergyman, but had a learned education. Having embraced the opinions of John Hufs, he began to propagate them in the year 1480 . In the mean time the council of Nice kept a watchful eye over him, and confidering him as a dangerous perfon, cited him to appear belore them and give an account of his faitl. In obedience to this citation, he went to Conftance; but on his arrival, in 1415 , finding Hufs in prifon, he fet out for his own country. Being feized, however, on the way, imprifoned, and cxamined, he was $\left\{_{0}\right.$ in-

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timidated, that he retracted, and pretended to approve of the condemnation of Wickliff's and Hufs's opinions; but on the 26 th of May 1416, he condemned that recantation in thefe terms: "I am not ahhamed to confefs here publicly my iweaknefs. Yes, with horror I confefs my bafe cowardice. It was only the dread of the punithment by fire which drew me to confent, againit my confcience, to the condemnation of the doctrine of Wickliff and Hufs." Accordingly fentence was paffed on him; in purfuance of which he was delivered to the fecular arm, and burnt in 1416 . He was a perfon of great parts, learning, and clocution.

JERONYMITES, or Hieronymites, a denomination given to divers orders or congregations of religious; otherwife called Hermits of Si ferome.

JERSEY, an illand in the Englith channel, believed. to be the iffand called in the Itinerary Cafarea, in fucceeding times Alugia, by us Gerfey, more frequently Jerfey. It is fituated in the Englith channel, 18 miles to the weft of Normandy, and 84 to the fouth of Portland in Dorfethire, and in the time of the Romans was called Coffarea. It is not above 12 miles in length, nor much above 6 where broadeft, which is at the two extremities. It is defended by rocks and dangerous quickfands. On the north fide the cliffs rife 40 or 50 fathoms high, which render it inacceffible on that lide; but on the fouth the thore is almoft level with the water. In the weft part of the ifland is a large tract of land once cultivated and very fertile, but now a barren defert, caufed by the wefterly winds throwing up fand from the bottom to the top of the higheit cliffs. The higher lands are diverffied by gritty, gravelly, ftony, and fine mould; the lower by a deep, rich, and heavy foil. The middle part of the ifland is fomewhat mountainous, and fo thick planted with trees, that at a diftance it refembles onc entire foreft, though in walking through it there is hardly a thicket or any other thing to be feen but hedge-rows and orchards of apple-trees. The valleys under the hills are finely watered by brooks, and have plenty of cattle and fmall fheep, with very fine wool, and very fiveet meat, which is afcribed to the fhortnefs of the grafs. The horfes are good for draught; but few fit for the faddle. The illand produces variety of trees, roots, and herbs; but not corn enough for the inhabitants, who therefore fend for it to England and France, and fometimes to Dantzic. The fields are inclofed by great mounds of earth, raifed from 6 to 8 or 10 feet high, proportionably thick and folid, planted with quickfets and trees. As the air of this inland is very healthy, thofe of the inhabitants who are temperate live to a great age: but the coaft is very fubject to florms by weiterly winds, from which they have no land to thelter them nearer than North America; and there is a vaft chain of rocks about the ifland, among which the tides and currents are to frong and rapid, that the navigation is dangerous to thofe who are not perfectly acquainted with the coaft. The buildings of this illand are generally of rag ftone; but fome of the wealthy inhabitants have their houfes fronted with a reddifh white fone, capable of being polithed like marble, and of which there is a rich quarry on a hill called Montmado. The ordinary dwellings are thatched. The churches are very plain buildings, moft of them with fquare fteeples; and the com-
munion tab'e is not at the eaft end, as in the Englifh churches, but placed juft under the pulpit. The ftaple manufacture is knit flockings and caps, many thoufand pairs of which are weekly fold at St Helier to the merchants; alfo cyder, of which 25,000 hogheads have been made here in one year. Their principal foreign trade is to Newfoundland; whither, particularly in 1732, they fent 24 hips; thefe proceed from thence to the Mediterranean to difpofe of their fifh.

On the fouth of the illand the fea feems to have encroached upon the land (which, as we have before obferved, declines on that lide), and to have fyallowed upwards of fix fquare miles, making a very beautiful bay of about three miles long, and ncar the fame in breadth. In the eaft corner of this bay flands the town of St Helier, very happily fituated. But the principal haven is in the weftern corner of the bay, which receives its name from it, being called $S_{t}$ Aubin's. There are, befides thefe, feveral other havens of lefs note; as, St Brelade's bay, at the back of St Aubin's; the great bay of St Ouen, which takes in the greateft part of the weft fide of the illand, where the largeft ihips may ride in 12 and 15 fathoms, fafe from all but eaft winc's. La Crevaffe is a port only for boats; Greve de Lecq and Port St Joln are alfo fmall havens on the north fide, where is likewife Bonnenuit. On the eaft there is the bay of St Catharine, and the harbour of Rofel. To the fouth-weft lies the haven de la Chauffée. The laft we fhall mention is the port de Pas, a very little to the ealtward of St Aubin's bay.
The towns of St Helier and St Aubin, which, as already mentioned, fand both in the fame bay called St Aubin's bay, opening to the fouth, are about three miles afunder. St Helier took its name from Elerius or Helier, a holy man, who lived in this iiland many centuries ago, and was flain by the Pagan Normans at their coming hither. He is mentioned among the martyrs in the martyrology of Coutance. His little cell with the foone bed is fill fhown among the rocks; and in memory of him a noble abbey of canons regular was founded in the little ifland in this bay, and annexed to Cherburg abbey in Normandy in the reign of Henry-I. and fuppreffed as an alien priory. The town of St Helier flands at the foot of a long and high rocky hill at the eaft end. It is a well-built and populous place; greatly improved and enlarged within the laft century; and contains about 400 houfes, moftly hops, and near 2000 inhabitants. The marketplace in the centre is fpacious, furrounded with handfome houfes, among which is the Cohue-Royale or court of juffice. At the top of the market-place is a ftatue of George II. of bronze gilt. The market is held on a Saturday, and much frequented.

St Aubin at the weft end of the bay is principally inhabited by merchants and matters of fhips, whom the neighbourhood of the port has invited hither. 'It is not more than half the fize of the other town, though greatly increafed within thefe 100 years; and has a good fone pier carried far into the fea, where Ships of confiderable burden lie fafe under the guns of the adjoining fort.
The ine of St Helier, more to the ealt in the fame bay, is in circuit near a mile, furrounded by the fea at
or about every half hood. Ois the fire of the abbey Je-ricy. before mentioned is now Elizabe:l cafle, one of the largeft and ftrongett fortrelies in Britain. Queen Elizabeth began it, and gave it her name. Chartes I. enlarged, and Charles 11 . who was twice here, completed it. It was the lail fortrefs that held out for the king. It is the refidence of the governor and garrifon, and occupies the whole ifle, from whence at low water is a paifage called the bridfe, half a mile long, formed of fand and ftones. A citadel was begurn in the laft war on a hill, whence the caftle might be bombarded, but fince the peace left off.

Mount Orgueil caftle, called alfo Gourray from the neighbouring village of that name, lies to the fouth of Rofel harbour in the bay of St Catharine. It was a place of Ilrength before Henry V.'s time, and bid defiance to the attempts of the French under the conflable De Guefclin 1374 at the end of the reign of Edward III. It was repaired by Queen Elizabeth, but is now neglected, yet preferves an air of grandeur anfwering its name even in ruins. The alcent to its top is by near 200 fteps; and from thence by a telefoope may be feen the two front towers of the cathedral of Coutance. The famous William Prynne was confined in it three years.

The ifland is divided into 12 parifhes, which are fo laid out that each has a communication with the fea; thefe are fubdivided into 52 vintaines, fo called from the. number of 20 houfes, which each is fuppofed to have formerly contained, juff as in England ro houfes anciently made a tything. The whole number of inhabitants is computed at about 20,000 , of which 3000 are able to bear arms, and are formed into regiments. Their general review is on the fandy bay between the two towns, when they are attended with a train of above 30 brafs field pieces, and two fmall bodies of horfe in the wings.

The chief officer is the governor, who has the cuAtody of his majety's canles, with the command of the garsifons and militia. The civil government is adminiftered by a bailiff, affitted by 12 jurats. They have here alfo what they call an affembly of the fates. Thefe are convened by the governor or his deputy; the bailiff confints of himfelf and the jurats, the dean and clergy, and the 12 high conftables.

There were formerly many druidical temples and altars in Jerfey, fome remains of which are fill to be feen. The cromlichs are here called pouquelays, and there are fome tumuli and keeps. Roman coins have alfo been dug up in this inand ; and there are the remains of a Roraan camp in the manor of Dilamant. Chriftianity was firft planted here in the middle of the 6th century, and the illand made part of the fee of Dol in Bretagne, and it is row governed by a dean. Befides the abbey of St Helier, here ware four priories, Noirmont, St Clement, Bonnenuit, and le Leck, and above 20 chapels, now moftly ruined. During the laft war this ifland, together with that of Guernfey, became an object of delire to France, whofe vanity, no lefs than her intereft, was concerned in depriving Britain of thofe laft remiants of her continental poffeffions. The firft attempt to atchieve this conquelt took place in the year r779. A force of 5000 or 6000 men was embarked in flat-bottomed boats, and endeavoured to land in the bay of St Ouen, on the firf of May. In

## J E R

Terfery, thin ...tempt they were fuppored by fire frimates and cther anmed vifels; but met with fuch a vigerous tcill':nce from the militia of the ifland, aflited by a body uf reculars, that they were compelled to retire without baving landed a fingle perfon. Nuch difcontent and mutual recriminatic os touk phace among the French naval and military officers on this failure ; and thac h the expedition was reprefented by many as ill coucerted, and deltitute of every hope of fucceis, amot? er attempt was refols.d on. Both the troons and feamen that had been emplosed in the former expedition were equally defirous of retriesing their honour; but they wore for fome time provented from making any attempt of this kind by Lad weather; and, before another opportunity offered, the finuadron which was defigned to cover their defcent was attached by Sir James Wallace, who drove them athore on the coall of Normahdy, filenced a battery under whofe guns they had taken thelter, captured a frigate of $3+$ guns, with two rich pizies, bumt t:ro other large frigates, and a confiderable number of fmaller velliels.

Thus the cheme of invading the ifland of Jerfey was totally difconcerted, and laid alide for that time, but was refumed in the year 1781. The conduct of thes fecond expedition was given to the baron de Rullecourt, who had been Second in command when the former attempt was made. He was a man of courage, but fierce and violent in his difpofition, and feems to have been very deficient in the prudence and conduct nectlary for bringing any military enterprife to a fuccefsful ilius. 'The force entrutted to him on the prefent occation confifted of 2000 men; with whom he crobarked in rery tempeltucus weather, ho ing that he night thus be able to furprife the garrifon. Nany of his tranfposts, lowerer, were thus diperfed, and he himelf, with the remaindcr. obliged to take thelter in fome illands in the neighbourhood of Jerfey. As foon as the weather grew caimer, he feized the opportunity of a dark ni ht to effect la ding at a place called Grouvil'e. where he nade prifoners of a party of nizlitia. Hence he proceeded with the utmon expedition to Si Ifelicr's. the capital of the illand, about three niles difint. His arrival was fo unespocied, that he feized on a party of men who guaded it, together with the ci mamding wficer, and the magiftrates of the itland. Rulieccurt then drow up a canitulation, the terms of wheh were, that the illand flould be indtantly furren. deved to the F'rench, and the E-imiton be lear to F.igglamci ; theratentug the cown with immediate deftuction in cafe of nom-complialce. It was in vain reprefented te him that no af of the deputy-oovernos and magiflrates could be valnd while they remained in his power; but, as Ruilercurt ill infittent they were obliged to comply leait his menaces thould have been carried into cxecution. This point beines gained, he advanced to Elizabeth cante in the neightourbecd of the town, fummoning it to furrender in virtue of the capitulation for tle cown ard iliand juft concluded. To this a peres L.ury re"bial was given, and followed by fuch a vigor dildharge of artillery, that he wa obliged to retire into the town. In the nean time the Britifn troors baticmed in the ifland hegan to affentble from every cularter under the cormarnd of Mjajer Pierfun; who, on being renuired by tie Frenc! cimmander io fubmit, replied, that of the Feach themlelves did not,
within 20 minutec, $1: y$ down their armis, he would siewje attack them. This being refufed, an attack was infartly made with fuch impetuonty, that she Fresch were totally routed in lefs than half an hour, and driven into the market-p!:ace, where they eadeavoured to make a tand. Theif commander, exafperated at this unexpeited turn of athirs, eadeavoured to wreak his vengeance on the captive governor, whom he obligel to tiand by his dide during the whole time of the co:iHijit. Ean, however, was çuckly over; the French were bration on all fides, the baron limifelf mortaliy wounded, and the next in command ohliged to furiender limfelf and the whode party prifuners of war ; while the captive governor elcaped without a wound. 'lhis fecond difater out an end to all hopes of the French minitry or being able to reduce ile inand of Jerlev. and was indeed no frm!l mortilicntion to them; 800 troops having been la:ided at that time, of which not one efcaped. A momument was erceted at the priblic expence in the church of St Helice, to the memory of Najor Pierfon, to whom the deliverance of the illand was owing ; but who unhappily fell in the moment of victory, when only 2.4 years of age.

All the landing places and crocks round the illand are now fortified with batteries, and 17 or 18 watcinhoufes are erected on the headlands. 'I hele are round towers with embrafures for fmall cannon and loop-holes for fmall munketry; the entrance by a duor in the wall out of the reach of man, and to be afcended by a ladder afterwards drawn up. This illand, with thofe of Guernfey, Sark, Alderney, and their appendascs, were parcel of the duchy of Normandy, and were mnited to the crown of England by the firlt princes of the Norman line. The language of the rulpit, and the bar, is the French, which is alfo that generally fpoken by the people at large. They are governed by their own laws, which are for the moft part the ducal cuitoms of Normandy, being collected in an ancient book of cul. toms intitled Le grand coufinmier. The king's writ, or proceís from the courts of Weftminfter, is here of no force ; but his commition is. They are not bound by any common adts of our parliaments, unlefs particularly named. All caufes are originally determined by their own officers, the bailiff and jurats of the illands. But an appeal lies from them to the king and council in the laft refort.-Jerfey is an earldom in the Villiers family.

New Jersar, or, as it is commonly called, the Jer. feljs (being two provinces united into one govern. ment), one of the united fates of North America, Iying from 39 to 41 degrees of north latitude, and from 74 to 75 degrees 30 minutes longitude weft from London ; in length 160 miles, in breadth 52.

It is bounded on the eaft by Hudfon's river and tie fea; on the fouth by the fea; on the welt by Dela. ware bay and river, which divide it from the ftates of Delaware and Pennfylvania; and on the north, by a line drawn from the mouth of Mahakkamak river, in latitude $41^{\circ} 24^{\prime}$, to a point on Hudfon's river, in latitude $41^{\circ}$; containing about 8320 !quare miles, equal to $5,3^{2} 4,800$ acres. New Jerfes is divided into 13 counties, which are fubdivided into $9+$ townhlins or precinets. In 1784 , a cenfus of the inhabitants was made by rder of the les dature, when tisey ameumed to 140,435 , of inhich 10,501 were blacks. Of thefe

Terfer biacks 9939 only were flaves; fo that the proportion of flares to the whole of the inhabitants in the tate is as one to 7 6. The population for every fquare mile is $\mathbf{1 8} 8$ As to the face of the country, foil, and productions, the counties of Sufiex, Morris, and the northern part Bergin, are mountainous. As much as five-eighth's of moit of the fouthern counties, or onc fcurth of the whole fita:e, is fandy and barren, unfit for cultivation. The land on the fea coaft in this, like that in the molt fouthern flates, has every appearance of orade grourd. The foil is generally a light fand; and by digging. on an average, about 50 feet below the furface (ilhich can be dene, even at the diffarice of 20 or 30 miles from the fea, without any impediment from rocks or flones), you come to falt marfh. This itate has all the varieties of foil from the worf to the bett kind. It has a greater proportion of barrens than any of the ftates. The barrens produce little elfe but thrub oaks and white and yellow pines. In the hilly and mountainous parts of the ftate, which are not too rocky for cultivation, the foil is of a fronger kind, and corered in its natural flate witl: flately oaks, hickories, chefnuts, \&c. \&c. and, when cultivated, produces wheat, iye, Indian corn, buck wheat, oats, barley, flax, and fruits of all kinds common to the climate. The land in this hilly country is good for grazing, and the farmers feed great numbers of cattle for Nerr York and Philadelphia ma:kets, and many of them keep large dairies. The markets of New York and Philadelphia receive a very conflerable proportion of their fupplie, from the contiguous parts of New Jerfey. And it is worthy of remark that thefe ontiguous parts are exceedingly well calculated, as to the nature and fertility of their foils, to afford thefe fupplies; and the intervention of a great number of navigable rivers and creeks renders it very convenient to market their produce. Thefe fupplies confilt of regetables of many kinds, apples, pears, jeaches, pluns, ftrawberries, cherries, and other fruits; cyder in large quantities and of the beft quality, butter, cheefe, beef, pork, mutton, and the leffer meats.

The trade of this flate is carried on almoft folely with and from thofe two great commercial cities, New York on one fide, and Philadelphia on the other ; though it wants not good ports of its own. The articles exported, befides thofe already mentioned, ate wheat, Blour, horfes, live cattle, hams, which are celebrated as being the beft in the world, lumber, flaxiced, leather, and iron in great quantities in pigs and bars. Formerly copper ore was reckoned among their mof valuable exports; but the mines have not been worl:ed fince the commencement of the late war. The iron manufactures is the greatelt fource of wealth io the flate. Iron works are erected in Gloucefter, Burington, Morris, and other counties. The mountains in the county of Morris give rife to a nuniber of fireams neceflary and convenient for thefe works, and at the fame tinie fu:nill a copions fupply of wood and ore of a fuperior quality. In this county aloue are roo lefs than feven rich iron mines, from which might be taken ore fufficient to fupply the United States; aad to work it into iron are two furnaces, two rolling and fliting mills, and about thirty forges, containing from two to four fires each. Thefe works rroduce anmually about $5 t 0$ tons of bar iron, 802 tons of pigs
beides large quantities of hollow ware, heet iron, and Yew Je frew. nail rods. In the whole ftate, it is fuppofed there is yeariy made about 1200 tons of bar iron, I 200 do. of pigs, 80 do. of nail rods, exclufive of hollow ware, and various other caftings, of which vaft quantities are made.

The character. manners, and cuftoms of the people are vatious in different parts of the fate. The inhabitants are a collection of Low Dutch, German, Einglith, Scotch, lrith, and New Euglanders, or their defcendants. National attach ment and inntual consenience have generally induced thefe feveral kinds of people to fettle together in a body; and in this way their peculiar national manae:s, cuitoms, and charater, are thill preferved, efpecially among the lower clafis of people, who have little intercourfe with any but thofe of their own nation. Religion, although its tendency is to unite people in thofe things that are efiential to happinefs, occafions wide differences as to manners, culloms, and even charaGter. The Preibyterian, the Quaker, the Epifcopatian, the Baptit, the German and Low Dutch Calvinill, the Methodit, and the Moravian, have each their diltinguiling characterititics, either in their workip, their difcipline, or their drefs. There is ftill another very percestible charafteriltical difiference, diting from either of the others, which arifes from the intercourfe of the inhabitanis with different itates. The people in. Weft Jerfey trade to Philadelphia, and of courle imitate their fafhions, and imbibe their manners. The inhabitants of Ealt Jerfey trade to New York, and regulate their faftions and manners according to thofe of New Yurk. So that the difference in regard to fafhions and manners between Eaft and Weit Jerfey, is nearly as great as between New York and P.iladelphia. The poople of New Jerfey are generally induttrions, frugal, and hofpitable. There are, complratively, but few men of learning in the fate, nor can it be faill that the people in general have a talle for the fciences. The lower clais, in which may be included three-fiths of the inhabitants of the whole ftate, are ignorant, and are criminally neglectful in the education of their children. There are, in this flate, about 50 Piefbyterian congregations, fubject to the care of three prefbyteries, viz. that of New York, of New Brunfrick, and Phladelphas; 40 congregations of the Friends; 30 of the Baptills 25 of Epifopalians; 28 of the Dutch, beides a few Moravians and Methodifts.

There are two colleges in New Jerfey; one at Priaceton, called Nafforl Hall; the other at Brumfuick, called 易uen's.college. The college at Princeton was firt founded about the year 1738, and enlarged by Goyernor Belcher in 1747. It has an annual income of about gool. currency ; of which 2001. arifes from funded public fecurities and lands, and the reft fron the fees of the fudents. There is a grammar-fchool of about fo fcholars, connected with the college, under the fuyeriatendance of the prefident, and taught by two mafters. Before the late revolution this college was fu:nilhed with a philufophical apparatus worth rool. which (except the elegant orrery conltruted by Mr Rittenhoule) was almoft entirely deftroged during the war, as was alfo the :ibrary, which now confifts of between 2000 and 3000 volumes.--The charter for Queen's-collere at Brunfwick was granted juit before the war, in cunfequence of an application from a body of the 1)arch church,

Leu jeriéy.church. Its funds, raifed wholly by free donations, amounted foon after its eftablifhmert to 40001 . ; but they were confiderably diminithed by the war.- The ftudents are under the care of a prelident. This college has lately increafed both in numbers and reputation. There are alfo a number of flourihing academies in this ftate; one at Trenton, another in Hakkenfak, others at Orangedale, Freehold, Elizabeth-town, Burlington, Newark, Springfield, Morriftown, Bordentown, and Amboy: but there are no regular eftablifhments for common fchools. The ufual mode of education is for the inhabitants of a village or neighbourhood to join in affording a temporary fupport for a fchoolmalter, upon fuch terms as is mutually agreeable. But the encouragement which thefe occafional teachers meet with, is generally fuch as that no perfon of abilities adequate to the bufinefs will undertake it, and of courfe little advantage is derived from thefe fchools.

There are a number of towns in this flate, nearly of equal fize and importance, and none that has more than 200 houfer, compactly built.-Trenton is the largeft town in New Jerfey. This town, with Lamberton, which joins it on the fouth, contain 200 houfes, and about 1500 inhabitants. Here the legillature meets, the fupreme court fits, and the public offices are all kept, except the fecretary's, which is at Burlington. On thefe accounts it is confidered as the capita] of the flate-Burlington flands on the eaft fide of the Delaware, 20 miles above Philadephia by water, and 17 hy land. The illand, which is the mof populous part of the city, is a mile and a quarter in length, and three quarters of a mile in breadth. On the illand are 160 houfes, 900 white and 100 black inhabitants. There are two houfes for public worfhip in the town, one for the Friends or Quakers, who are the moit numerous, and one for the Epifcopalians. The other public buildings are two market-houfes, a court-houfe, and the beft gaol in the flate. Befides thefe, there is an academy, a free fchool, a nail manufactory, and an excellent diftillery, if that can be called excellent which produces a poifon both of health and morals.-Perth A'mboy fands on a neck of land included between Raritan river and Arthur Kull found. It lies open to Sandy Hook, and has one of the beft harbours on the continent. Yeffels from fea may enter it in one tide, in almoft any weather.-Brunfwick was incorporated in 1784 , and is fituated on the fouth-weft fide of Raritan river, 12 miles above Amboy. It contains about 200 houfes and $16=0$ inhabitarits, one-half of which are Dutch. Its fituation is low and unpleafant, being on the bank of the river, and under a high hill which rifes back of the town.-Princeton is a pleafant healthy village, of about 80 houfes, 52 miles from New York, and 43 from Philadelphia.-Elizabeth soun and Nereark are pleafant towns; the former is 15 , and the latter nine miles from New İork. Newark is famed for its good cyder.

The government of this flate is wefted in a governor, leginative council, and gereral affembly. The governor is chofen annually by the council and afiembly jointly. The legilative council is compofed of one membor from each county, chofen amnually by the people. The general afembly is compofed of three members from each county, chofen by the freemen. The council choofe one of their mombers to be vice-
prefident, who, when the governor is abfent from the flate, poffeffes the fupreme executive power. The council may originate any bills, exceptivg preparing. and altering any money bill, which is the fole prerogative of the affembly.

The firft fettlers of New Jerfey were a number of Dutcb emigrants from New York, who came over between the years 1614 and 1620 , and fettled in the county of Bergen. Next after thefe, in $\mathbf{1 6 2 7}$, came over a colony of Swedes and Finns, and fettled on the river Delaware. The Dutch and Swedes, though not in harmony with each other, kept poffeffion of the country many years. In March 1664, Charles II. granted all the territory called by the Dutch New Netherlands, to his brother the duke of York. And in June 1664 , the duke granted that part now called New Jerfey to Lord Berkeley of Stratton, and Sir George Carteret, jointly; who, in 1665 , agreed upon certain concelfions with the people for the government of the province, and appointed Philip Carteret, Efq. their governor.-The Dutch reduced the country in 1672; but it was reftored by the peace of Wellminfter, Fe bruary 9. 1674 .

This ilate was the feat of war for feveral years, during the bloody conteft between Great Britain and America; and her loffes, both of men and property, in proportion to the population and wealth of the ftate, was greater than of any other of the thirteen flates.

Jersey, among woolcombers, denotes the fineft wool, taken from the relt by drefling it with a Jerfey comb.

JERUSALEM, a very famous and ancient city, capital of Judea or Palefline, now a province of Turkey in Afa. According to Manetho, an Egyptian hiftorian, it was founded by the fhepherds who invaded Egypt in an unknown period of antiquity *. Accord. *See Egy ing to Jofephus, it was the capital of Melchifedek's ${ }^{\mathrm{n}^{\circ}}{ }^{2}$ kingdom, called Salcm in the book of Genefis: and the Arabians affert, that it was built in honour of Melchifedek by 12 neighbouring kings; which when they had done, he called it ferufalem. We know nothing of it with certainty, however, till the time of King David, who took it from the Jebufites, and made it the capital of his kingdom, which it ever after continued to be. It was firt taken in the days of Jehoafin, by Hazael the king of Syria, who flew all the nobility, but did not deftroy their city. It was afterwards taken by Nebuchadrezzar king of Babylon, who deftroyed it, and carlied away the inhabitants. Seventy years after, permifion was granted by Cyrus king of Perfis to the Jews to rebuild their city, which was done; and it continued the capita? of Judea (though frequently fuffering much from the Grecian monarchs of Syria and Egypt), till the time of Vefpafian emperor of Rome, by whote fon Titus it was totally delitroyed $\dagger$. $\dagger$ See Foc It was, however, rebuilt by Adrian ; and feemed likely to have recovered its former grandeur, being furrounded with walls, and adorned with feveral noble buildings; the Chriftians alfo being permitted to fettle in it. But this was a fhort-lived change, fo that when the emprefs Helena, mother of Couflantine the Great, came to vifit this city, fhe found it in the moff forlorn and ruinous fituaticn. Having formed a defign of reftoring it to its ancient luftre, flec caufed, with a great

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Jerufaim. deal of con and labour, all the rubbith that had been thrown upon thole places where our Saviour had fuffered, been beried, \&is. to be removect. In doing this, they found the crofs on which he died, as well as thofe of the two malefators who fuffered with hinn and, as the writers of thofe times relate, difcovered by a miracle that which had borne the Siviour of mankind. She then caufed a magnificent church to be built, which incluted as many of the fcenes ol our Saviour's fufferings as could conveniently be done, and adorned the city with feveral other buildings. The emperor Julian is faid to have formed a deffy of rebuiting the temple of Jerufalem, and of reftoring the Jewihh worihip. This fcheme was contrived on purpofe to give the lie to our Saviour's piophecy concerning the temple and city of Jerufalem; namely, that thee firlt fhould be totally deAtroyed, without one ilone being left upon another; and that Jerufalem fhould be trodden down of the Gentiles till the times of the Gentiles were fulfilled. In this attempt, however, according to the accounts of the Chriftian writers of that age, the emperor was frultrated by an earthquake and fiery eruption from the earth, which totally deatroyed the work, confumed the materials which had been collected, and killed a great number of the workmen.

This event hath been the fubject of much difpute. Mr Warburton, who bath publithed a treatife exprefsly on the truth of this fact, hath collected the following teflimonies in favour of it. The firft is that of Ammianus Marcellinus, who tells us, "Julian (having been already thrice conful), taking Sallutt, prefect of the feveral Gauls, for his colleague, entered a fourth time on this high magillracy; and although his fenfibility of the many and great events which llis year was likely to produce made him very anxious for the future, yet he both pulhed on the various and complicated preparatives for this expedition with the utmoft application, and. having an eye in every quarter, and being defirous to eternize his reign by the greatnefs of his atchievements, he projected to rebuild at an inmenfe expence the proud and magni. ficent temple of Jerufalem ; which (afier many combats, attended with much bloodined on both fides, during the fiege by Vefpaian) was with great diffculty taken and deftroyed by Titus. He committed the conduct of this affair to Alypius of Antioch, who had formerly been lieutenant in Bri:ain. When therefore this Alypius had fet himfelf to the vigorous execution of his charge, in which he had all the affiffance that the governor of the province could afford him, horrible balls of fire breaking out sear the foundations, with frequent and reitcrated attacks, rendered the place from time to time inacceflible to the forched and blafted worknien; and the victorous element continuing, in this manner, obithately and refolutely tent, as it were, to drive them to a difance, Alypius thought befl to give over the enterprife."

The next teltiniony is that of Gregory Nazianzen. Speaking of the emperor Julian, he lays, "After having run through a courfe of every other tyramisal experiment againf the faith, and upon trial defpifing all of them as trifling and contemptible, he at laft brought down the whole body of the Jews upon us; whom, for their ancient turn to fellitious novelties, and an inveterate hatred of the Chnifian name, he

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chofe as the fitteft inftrument for his machinations, yersialequ, Thele, under a dhow of great good-will, which bid his fecret purpofe, he endeavoured to convince from their facred books and traditions, which he took upon him to interpret, that now was come the time forctold when they thould return to their orn land, rcbuild their temple, and reftore the law to its ancient force and fplendor. Whers thefe things had beca thoroughly infinuated, and beartily entertained (for deceit finds eafy adiaittance when it flatters our paffions), the Jews fet upon the work of rebuilding with great attention, and puthed on the project with the utmolt labour and application. But when, now driven from their work by a violent whirhwind and a fudden earthquake, they Hed together for refuge to a certain neighbouring church (fome to deprecate the impend ing mifchief; others, as is natural in fuch cafes, to catcl at any help that prefents itfelf; and others again, enveloped in the crowd, were carried along with the body of thole who fled); there are who fay, the church refufed them entrance; and that when they came to the doors which were wide open but a moment before, they found them on a fudden clofed by a fecret and invitible hand; a hand accuflomed to work thefe wonders by the terror and confufion of the impious, and for the fecurity and comfort of godly men. This, however, is now invariably affirmed and believed by all, that as they flrove to force their way in by violence, the fire which burff frons the founda. tions of the temple, met and flopped them. One part it burnt and deftroyed, and another it defperately maimed, leaving them a living monument of God's commination and wrath againft finners. Thus the affair palled; and, let no man continue incredulous concerning this or the other miraculaus works of God. But fill the thing molt wonderful and illultrious was, a light which appeared in the heavens, of a crofs within a circle. That name and fgure which impious men before eiteemed fo difhonourable upon earth, was now railed on high, and equally objected to the common view of all men; advanced by Gud himfelf as the trophy of his victory over unbelievers; of all trophies the moll exalted and fublime. Niy further, they who were prefent, and partakers of the miracle we are nosv about to fpeak of, fhow to this very day the fign or figure of the crofs which was then marked or imprefled upon their garments. For at that time, as thefe men (whether fuch as were of us or ftrangers) were flowing thefe marks, or attending to others who thowed them. each prefently obferved the wonder, either on himlelf or his neighbour; having a radiant mark on his body or on his garment, in which there is fomething that, in art and elegance, exceeted all painting or entoroidery."

Notwithtanting thefe teftimonies, however, this fact hath been ftrenuouily contetled by others; and iaded it mult be ownct that the teftimonies above mentioned are by no means unexceptionable. In the latt, particularly, the propenfity to the marvellons is io exceedingly sreat, that every one mutt at firlt tisht be thruck with it. It is true indeed, the molt miraculous part of it, as it feemed to be to Gredory, namely, the appearance of erofics upon the garments. and bodies of fome of the people who were llruck, may be explained upon a natural principle; fince we

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Jerufalen: are afured that lightning will fometimes produce ef$\underbrace{}_{S \text { Sec Ligbt }}$ -ing. fects of this kind *: bat even this is no decrive proof of the aushenticity of the relation; though it cannot by any meane difcredit it, as fome think. On the whule, however, it is not a matter of any confequence whether this event happened with the circumilances abuve mentioned or not. If Julian did make any attempt to rebuild the temple, it is certain that formething o. ffucted the attempt, becaule the temple was never actually rebuilt. If he made no fuch attempt, the pro, hacey of our Saviour ftill hcils good; and it furely cannut be thought to detract from the merit of a prophecy, that no body ever attempted to ciude $i$, or prove it to be a fal ehoo.t.

Jerufalem continued in the hands of the eaftern emperors till the reign of the calipls Omar, who reduced it under his fubjection. The Saracens continued in poffetion of it till the year 1099, when it wis taken by the Crufaders. They founded a new kingdom, of which Jerufalem was the capital, which lalled 88 ? ans under nine kings. At laft this kingdom was uterly suined by Saladin; and though the Chriftians once more got poffeffion of the city, they were again othiged to relinguifh it. In 1217 , the Saracens were expelled by the Turks, who have ever fince continued in poffelfion of it.

The city of Jerufalem, in its molt flourifhing flate, was divided into four parts, each inclofed with ir own walls; viz. I. The old city of Jebus, which flood on Mount Zion, where the prophets dwelt, and where David built a magnificent caftle and palsee, which became the refidence both of himfelf and fuccefiors; on which account it was emplatically called the City -f David. 2. The lower city, called alfo tlic Daugho tel of Zion, being built after it; on which flond the two magnificert palaces which Solomon built for himfelf and his queen; that of the Maccabean princes; and the ftately amphitheatre built by Herod, capable of containing 30,000 Spectators; the ftrong citadel, built by Antiochus, to command and overtop the temple, but afterwards razed by Simon the Maccabee, who recovered the city from the Syrians; and lafly, a fecond citadel, built by Hercd, upon a high and craggy rock, and called by him Antonia. 3. The new city, montly inlabited by tradefmen, artificers, and merchants; and, 4. Mount Moriah, on which was brilt the fo famed temple of Sulcmon, defribed in the fisth and feventh chapters of the fecond book of Kings; and, fince then, that rebuilt by the Jews on their return frora Babylon, and afterwatds built alnoft anew and greatly adorned and enriched by Herod.

Some idea of the magnificence of this temple may be had from the following comfiderations. 1. That there were no lefs than 163,300 men employed in the work. 2. That notwithltanding that prodigious numbeer of hands, it took up feven whole years in build. jng. 3. That the height of this building was 120 cubits, or 82 yards, rather more than lefs; and the courts round it about half as high. 4. That the front, on the eaft fide, was fullained by ramparts of filuare Rone, of wall bulk, and built up from the valley below, which latt was 300 cubits high, and being added to that of the edifice amomed to $t=0$ cu'vits; to which, if we ad!!, 5. The height of the principal tower aoove all the rell, viz. 60 , will bring
it to $f$ So cubits, which, reckoning at two feet to ? Jerufalem. cubit, will amon: to 960 tent; but accoiaing to the length of that meafure, as othens reckon it, viz. at two fett and an half, it will amount to $\mathbf{1 2 0 0}$ feet; a prodigious height this from the grouni, and tuch as minht well make Jofephus fay, that the very deligu of it "as fufficient to have turned the brain of any but Solomon. 6. Thefe ramparts, which were ralled in this manner, to fill up the prodigious chatm made oy the deep valley below, and to make the area of a fufñcient breadth and length for the edifice, were 1050 cubits in length at the bottom, and 800 at the top, and the breadth of them 100 more. 7. 'The huge buttrcfies which fupported the ramparts were of the fame height, fquare at the top, and 50 cubits troad, and jutted out 150 cubits at the bottom. 8. The flones, of which they were built, were, according to Jolephus, to cubits long, 12 thick, and 8 high, all of marble, and fo exquilitely joined, that they ieemed one continued piece, or rather polithed rock. 9. According to the lame Jewihh hiflorian, there were 1453 columns of Parian marble, and twice that number of pilafters; and of fuch thicknef, that three men could hardly embrace thens, and their height and capitals proportionable, and of the Corinthian order. But it is liheiy Jolephus hath given us thefe two latt articles from the temple of Herod, there being nothing like them mentioned by the facred hiflorians, but a great deal about the prodigious cedars of Lebanon ufed in that noble edifice, the cxcellent workmanthip of them adapted to their feveral ends and deligns, together with their gildings and other curious ornaments. The only thing more we ihall venture to add is, what is affirmed in Scripture, that all the materials of this stupcudous fabric were finithed and adapted to their feveral ends before they were brought to Jerufalem, that is, the flones in their quarries, and the celars in Lebanon; fo that there was no noife of axe, hammer, or any tool, heard in the rearing ol it.

At prelent Jerufalem is called by the Turks Cudfentaric, and Coudfberiff; and is reduced to a poor thinly inhabited town, about three miles in circumference, fituated on a rocky mountain, furrounded on all fides, except the nor $h$, with fteep afcents and deep valleys; and thefe again environed with other hills, at fome diflance from them. In the neighbourhood of the city there grew fome com, vines, olives, \&c. The ftately church erected by the emprefs Helena, on Mount Calvary, is till fanding. It is called the church of the fopulchre; and is kept in gond repair by the generous offerings of a conftant concourfe of pilgrims, who amually refort to it, a. well as by the contributions of feveral Chriftian pr nces. The walls of this church are of flone, and the roof of cedar ; the ealt end inclofes Mount Calvary, and the weft the holy fepulchre: the former is covered with a noble cupola, open at top, and fupported ty 16 mallive columns. Over the high altar, at the eaft end, is another ftately dome. The nave of the churc ${ }^{1}$, conifitures the choir; and in the infide aifte are flown the places whicre the moft remarkable circumitances of our Saviour's saffion were trarficted, together with the torabs of Godfrey and B iduin, the two firlt Chrmian kings of Jcrufalem. In the thape! ot the crucifixion is fhown the very loolc in the rock in which the crois is faid to

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erufalem. have been fxed. The altar in this chanel hath three crofies on it ; and is richly adorned, particularly with four lamps of immenfe value that hang before it, and arc kept conffantly burning. At the weft end is that of the fepuichre, which is hewn in that form out of the folid rock, a.d hath a fmall dome fupported by pillars of porphyry. The cloither round the fepulchre is divided into fundry chapels, appropriated to the feretal forts of Chrifians who refide there; as Greeks, Armenians, Maronites, Jacobites, Copts, Abylines, Geergians, Ezc. and on the north-weit fide of it are the apartments of the Latins, who have the care of tre clurch, and are forced to relide contantly in it ; tise Turks keeping the keys of it, and not fuffiring ayy of them to go out, but obliging them to recoive their provianons in at a wicket. At Eafter there are fome grand ceremonies perfurmed in the church, reprefenting our Lord's pafion, crucifixion, death, and refurrection, at which a vall concourfe of pilgrima commonly affint. For a particular account of them, we refer the reader to Doturs Shaw and Pococke.

On Mount Mocrikh, on the fouth-eall part of the city, is an edifice called Sulomon's Tcmerple, flanding on of near the fame fpot as the ancient; but when or by whom erecied is uncertain. In the midft of it is a Turkith mofque, where the Jewih fanctum fantorum is fappofed to have flood. The building, which Dr Pococke thin's mult have been formerly a Chriftiza church, is held in the utmoft veneration by the Turks.

The city is now under the government of a fangiac, who refides ia a hou'e faid to have been that of Pontius Pilate, over-aguinf the cante of Antonia built by Herod the Great. Many of the churches erected in memory of fome remarkable gofpel-tranfaciion, have been fince converted into moiques; into fome of which money will procure admittence, but not i:nto others. Both the friars and other Chriftians are kept fo poor by the tyrany of the government, that the chief fuppert and trade of the place confifts in providing frangers with food and other accomandations, and felling them deads, relics, and other trinkets, for which they are oblized to pay conutcrable fums to the fangiac, as well as to his ofincers; and thofe are feldom fo well contented wihh their ufual duties, but they frequently extort founc fref ones, efpecially from the Francifcans, whofe convent is the common receptacle for all pilgrims, and for which they have confiderable allowances from the pope, and other crowned heads, befides the prefe - which Atrangers generally make therm at their departure. The moft remarlable antiquities in the neighbourbood of Jerufalem are, 1. The pools of Betherda and Gihon ; the former 120 paces long, to broad, and at leaft eight deep, but now without water ; and the odd arches, which it atill difcosers at the weft end: are quite dammed up: the other, whicin is about a quarter of a mile without Bethichera-gate, is a *ery ftatc'y relick, 106 paces lor:, and 62 broad, lined with a wall and plafter, and itill well flored with water. 2. The tomb of the Virgin Mary, in the valley of Jehcihaphat, into which one defcends by a mag. niticent liught of 47 fteps. On the right hand as one soes down, is alfo the fepulchre of St Arm the mother, aisd on the left that of Jofeph the hußand, of
the virgin-mother: fome add Whewife that of Jehoia- Jerthten. him her father. in all thefe are erected altars for priefts of all forts to fay mafs, and the whole is cut into the folid rock. 3. The tomb of King Jehoflarhat, cut likewi?e into the rock, and divided into feveral apartments; in one of which is his tomb, which is adorned with a ftately portico and entablature over it. 4. That commonly called Abjalum's pillar or place, as being generally fuppofed to be that which he is faid to have erceted in his life-time to perpctuate his memory, as he lad no male-ifiue. The place, however, both within and without, hath morc the refemblance of a fepulchre than any thing elfe: though we do not read that he was buried there, neither do the peoplc here allirm that he was. There is a great heap of fones about it, which is continually in reafing ; the fupertittious Jews and Turks always throwing fome as they pafs, in token of their abhorrence of Abfalum's unnatural rebellion againft fo good and holy a parent. The flrefure itfelf is about 20 cubits fquare, and 60 high, rifing in a lofty 「quare, adorned below with four columns of the Ionic order, with their capitals, cnta. blatures, \&ic. to each front. From the height of 20 to 40 cubits, it is fomowhat lefs, and quite plain, execpting a fmail fillet at the upper end; and from to to the top it changes into a round, which grows gradually into a point, the whole cut out of the folid rock. There is a room within, coniderably higher than the level of the ground without, on the lites of which are niches, probably to rcceive coilns. 5. A little eaftwarl of this is that called the lomb of Zechariah, the fon of Barachiah, whon the Jews flers betwee: the temple and the altar, as is commonly fuppofed. This fabric is all cut out of the natural rock, 18 feet high, and as many fquare; and adorned with Tonic columis on each front, cut out likewife of the fame ruck, and fupporting a cornice. The whole ends in a pointed top, like a diamond. But the moft curious, grand; and elaborate pieces, in this kind, are the grotts without the walls of Jerufalem, Ayled the royal Sepulchres; but of what kings is not agreed on. They confilt of a great number of apartments, forse of them fpacious, all cut out of the folid marble rock; and may junfly Le pronounced a royal work, and one of the moft noble, furprifing, and magnificent. For a particular account of them we muft refer thee reader, for wait of room, to Pococke's Travels. In the neighhourhood of Jerufalem is a fpot of ground, about 30 yards long and $: 5$ broad, now the burying-place of the Arme. nians, which is fhown as the Aceldama, or Field of Blood, formerly the Putters Field, and fince ilyled Campo SanEZo, or the Yyoly Field, purchaliol with the price of Judas's trearon, for the burial of tranyers. It is walled sound, to prevent the Turks abufing the bones of Chriflians; and une half of it is takien up by a building in the nature of a charnel houfe. Befiles the above, a great many other antiquities in the city and it, environs are hown to frangers; there being fearce any place or tranfaction mentioned tibler in the Old or Nes- Teflament, but they thow the very fyt of ground where the one food, and the other was done; not only here, but all over Judxa.

JESI, an ancient town of Italy, in the territury of the church, and in the marea on march of Ancona,

- efo with a bihop's fee. It is feated on a mountain, near a river of the fame name, in E. Long. 12. 20. N. Lat. 43. 50.

JESSO, Jedso, or Kadfo, a large inland of $A$ fia, to the north of Niphon, and faid to be governed by a prince tributary to the empire of Jupan; but is very little known to the Europeans, fo that nothing can be faid with certainty concerning it.

JESSES, ribbons that hang down from garlands or crowns in falconry; alfo thort ftraps of leather fafiened to the hawk's legs, and fo to vervels.

JESTING, or concife wit, as diftinguifhed from continucd wit or humour, lies either in the thought, or the language, or both. In the firft cafe it does not depend upon any particular words or turn of the expreifion. But the greateft fund of jefts lies in the language, $i, e$. in tropes or verbal figures; thofe afforded by tropes confift in the metaphorical fenfe of the words, and thofe of verbal figures principally turn upon a double fenfe of the fane word, or a fimilitude of found in different words The third kind of jokes, which lie both in the fenfe and language, atife from figures of fentences, where the figure itfelf confils in the fenfe, but the wit turus upon the choice of the words.

JESUITS, or the Saciety of Yasus; a famous religious order of the Romifh church, founded by Ignatius

Io mazation of the ordes.

Confirmed
by the
pope, and from what motives. Loyola. See Ignatuus.-The plan which this fanatic formed of its conftitution and laws was fuggefted, as he gave out, and as his followers ftill teach, by the immediate infpiration of heaven. But notwithftanding this high pretenfion, his defign met at firft with violent oppoftion. The pope, to whom Loyola had applied for the fanction of his authority to confirm the inftitution, referred his petition to a committee of cardinals. They reprefented the eftablifhment to be unneceffary as well as dangerous, and Paul refufed to grant lis approbation of it. At laft, Loyola removed all his fcrupics by an offer which it was impolible for any pope to refift. He propofed, that befides the three vows of poverty, of chaftity, and of monaftic obedience, which are common to all the orders of regulars, the members of his fociety fhould take a fourth vow of obedience to the pope, binding themfelves to go whitherfoever he fhould command for the fervice of religion, and without requiring any thing from the holy fee for their fupport. At a time when the papal athinority had received fuch a mock by the revolt of fo many nations from the Romill church; at a time when every part of the popifh fyftem was attacked with fo much violence and fuccefs, the acquiftion of a body of men, thus peculiarly devoied to the fee of Rome, and whom it might fet in oppofition to all its enemies, vass an object of the higheft confequence. Paul infantly perceiving this, confirmed the inftitution of the Jefuits by his bull, granted the moft ample privileges to the members of the fociety, and appointed Loyola to be the firl general of the order. 'Whe event hath fully julified Paul's difcernment, in expecting fuch beneficial confequences to the fee of Rome from this infitution. In lefs than half a century, the fociety obtained eflabithments in every country that adhered to the Roman catholic cluurch: its power and wealth inciealed amazingly; the number of its members became great ; their charaetcr as well as accomplifments were Itill greater; and the Jefuits were celcbrated by
the friends and dreaded by the enemies of the Romilh faith as the molt able and enterprifing order in the church.

The confitution and laws of the fociety were ferfected by Laynez and Aquariva, the two generals who fucceeded Loyola; men far luperior to their mafter in abilities and in the fcience of government. They framed that fyftem of profound and antful policy which diftinguifhes the order. The large infufion of fanati. cifm mingled with its regulation hould be imputed to Loyola its founder. Many circumtances concurred in giving a peculiarity of character to the order of Jefuits, and in forming the members of it not only to take greater part in the affairs of the world than any other body of monks, but to acquire fuperior influence in the conduct of them.

The primary object of alnoft all the nonaftic orders is to feparate men from the world, and from any concern in its affairs. In the folitude and fience of the lar. cloilter, the monk is called to work out his own falvation by extraordinary acts of mortification and piety. He is dead to the world, and ought not to mingle in its tranfactions. He can be of no bencfit to mankind but by his example and by his prayers. On the contrary, the Jefuits are taught to confider themlelves as formed for action. They are chofen foldiers, bound to exert themfelves continually in the fervice of God, and of the pope his vicar on earth. Whatever tends to inftruet the ignorant, whatever can be of ufe to reclaim or to oppofe the enemies of the holy fee, is their proper object. That they may have full leifure for this active fervice, they are totally exempted from thofe functions the performance of which is the chief bufinefs of other monks. They appear in no proceffions; they practife no rigorous auflerities; they do not confume one half of their time in the repetition of tedious offices: but they are required to attend to all the tranfactions of the world, on account of the influence which thefe may have upon religion; they are directed to ttudy the difpofitions of perfons in high rank, and to cultivate their friendthip; and by the very conflitution as well as genius of the order, a fpirit of action and intrigue is infufed into all its members.

As the object of the fociety of Jefuits differed from that of the other monaltic orders, the diverfity was no lefs in the form of its government. The other orders are to be confidered as voluntary affociations, in which whatever affects the whole body is regulated by the common fuffrage of all its members. The executive power is refted in the perfons flaced at the head of each convent or of the whole focicty; the legiflative authority refides in the community. Afairs of moment, relating to particular convents, are determined in conventual chapters; fuch as refpect the whole order are confidered in general congregations. But Loyola, full of the ideas of implicit obedience, which he had derived from his military profeffion, appointed that the government of his orter ftould be purely monarchical. A general, chofen for lite by depuities from the feveral provinces, poffefied power that was fuprente and independent, extending to every perfon and to every cale. He, by his fole authority, nominated provincials, rectors, and every other officer employed in the goverament of the focicty, and could remove

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them at pleafure. In him was vefted the fovercign adminiftration of the revenucs and funds of the order. Every member belonging to it was at his difpofal; and by his uncontrollable mandate he could impoie on them any tafk, or cmploy them in what fervice foever he pleafed. To his commands they were required to yield not only outward obedience, but to refigh up to him the inclinations of their own wills and the fentiments of their own underfandings. They were to liften to his injunctions as if they had been uttered by Chrift himfelf. Under his direction they were to be mere paffive inftruments, like clay in the hands of the potter, or like dead carcafes incapable of refiltance. Such a fingular form of policy could not fail to imprefs its character on all the members of the order, and to give a peculiar force to all its operations. There is not in the annals of mankind any example of fuch a perfect defpotifm, exercifed not over monks thut up in the cells of a convent, but over men difperfed among all the nations of the earth.

As the conflitutions of the order veft in the general fuch abfolute dominion over all its members, they carefully provide for his being perfectly informed with refpect to the character and abilities of his fubjects. Every novice who offers himfelf as a canclidate for entering into the order is obliged to manifelt his confcience to the fuperior, or a perfon arpointed by him; and is required to confefs not only his fims and defects, but to difcover the inclinations, the paffions, and the bent of his foul. This manifeftation muft be renewed every fix months. The fociety, not fatisfied with penetrating in this manner into the innermolt receffes of the heart, directs each member to obferve the words and actions of the novices: they are conitituted fpies ufon their conduct, and are bound to difclofe every thing of importance concerning them to the fuperior. In order that this fcruting into their charaler may be as compleie as poffible, a long noviciate muft expire, during which they pals through the feveral gradations of ranks in the fociety; and they muft have attained the full age of thirty-three years before they can be admitted to take the final rows, by which they become profeffed members. By thefe various methods, the fuperiors, under whofe immediate infpection the novices are placed, acquire a thorough knowledge of their difpofitions and talents. In order that the general, who is the foul that animetes and moves the whole fociety, may have under his eye every thing neceflary to inform or direet him, the provincials and heads of the fercral houfes are obliged to tranfmit to him regular and frequent reports concerning the members under their infpection. In thefe they defcend into minute details with refpect to the character of each perfon, his abilities natural or acquired, his temper, his experience ia affairs, and the particular department for which he is beit fitted. Thefe reports, when digefted and arranged, are entered into regiters kept of purpole, that the general may, at one comprehenfive vieu, furvey the fate of the fociety in every comer of the earth; obferve the qualifications and talents of its members; and thus choofe, with perfect information, the inftruments which his abfolute power can employ in any ferviec for which he thinks meet to deftine them.

As it was the profeffed intention of the order of Iefuits to labour with unwearied zeal in fromoting
the falvation of man, this ergaged them of cowire in many ative functions. From their fro infirusion fexu:ts. they confidered the cducation of youth as their peculiar progrefsof province; they aimed at being 「piritual guides and the powes confeftors; they preached frequently in order to in-andinfufluct the people; they let out as miflionaries to con-crce of the rert unbelieving nations. The novaly of the inftitu- oifer.
tion, as well as the fingularity of his objacts, procured the order many admirers and patrons. The governors of the fociety had the addrefs to avail themlelves of cvery circumflance in its farour; and in a fhort time the number as well as influence of its members increafed wonderfully. Before the expiration of the fixteenth century, the Jefuits had obtained the chief dircction of the education of youth in every catholic country in Europe. They had become the confeflors of almoft all its monarchs; a function of no fmall importance in any seign, but, under a weak prince, fuperior even to that of minifter. They were the fpiritual guides of almoit every perfon eminent for rank or poner. They polieffed the higheft degree of confidence and interelt with the papal court, as the moit zealous and able champions for its authority. The advantages which an active and enterprifing body of men might derive from all thefe circumflances are ouvious. They formed the minds of men in their youth. They retained an afcendant over them in their advanced years. They poflefled, at different periods, the direction of the moft confictrable courts in Europe. They iningled in all affairs. They took part in every intrigue and revolution. The general, by means of the extenfive intelligence which he received, could rcgulate the operations of the order with the molf perfeet difcernment; and, by means of his abfolute power, could carry them on with the utmolt vigour and effect.

Together with the power of the order, its wealth orits continued to increafe. Varions expedients were devi- wealeth fed for eluding the obligation of the vow of poverty. The order acquired ample pafieffions in every catholic country; and by the number as well as magnificence of its public buildings, together with the value of its property, moveabie or real, it vied with the moll opulent of the monallic fraternities. Befides the fources of wealth common to all the regular clergy, the Jefuits polfeifed one which was peculiar to thenselves. Under pretext of promoting the fuccefs of their miffions, and of facilitating the fupport of their miffonaries, they obtained a fpecial licence from the court of Rone to trade with the nations which they labourd to convert. In confequence of this, they engaged in an extenfive and lucrative commerce both in the Ealt and Weff Indies. They opened warehoures in different parts of Europe, in which they vended their commodities. Not fatisfied with trade aloue, they innitated the example of other commercial focieties, and aimed at obtaining fettlements. They acquired pollef fion accordingly of a large and fertile province in the fouthern continent of America, and reigned as fovereigns over fome hundred thouland lubjects.

Unhappily for mankind, the vaf influence which Pernicious the order of Jefuits acquired by all thefe differenteffech of means, has been often exerted with the moit pernicious ilicfe on cio effect. Such was the tendency of that difcepline ob. vil fucicty. ferved by the focicty in forming its members, and fuch
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Jcfiuts, the fundamental maxims in its conflitution, that every Jeluit was thught to regard the interelt of the order as the capital object to which every conlideration was to be facrificed. This feririt of attachment to their order, the moll ardent perhaps that ever influenced any boly of inen, is the chatacterific principle of the Jefults, and ferves as a key to the genius of their policy as "ell as the peculiarities in their fentiments and conduct.

As it was for the honour and advantage of the fociety that its members llould poffefs an afcendant over perfons in high rank or of great power ; the defire of acquiring and preferving fuch a direction of their conaluct with greater facility has led the Jefaits to propagate a fyltem of relaxed and pliant morality, which accommodates itfelf to the palfions of men, which fultifies their vices, which tolerates their imperfections, which authoriles almo:t every action that the moit aud.cious or crafty politician would wifh to perfetrate.

As the profperity of the order was intimately connefed with the prefervation of the papal authority, the Jefuits, intuenced by the fame principle of attachment to the interefts of their fociety, have been the molt zealous patrons of thofe doctrines which tend to exalt ecclefiaftical power on the ruins of civil government. They have attributed to the court of Rome a juriidiction as extenfive and abfolute as was claimed by the mol? prefumptuous pontiffs in the dark ages. They have contended for the entire independence of ecclefiaftics on the civil magittrates. They have publithed fuch tenets conceraing the duty of oppofing princes who were enemies of the Catholic frath, as countenanced the molt atrocious crimes, and tended to diffolve all the ties which comect fubjets with their rulers.

As the orler derived both reputation and authority from the zeal with which it food forth in defence of the Romith church agaialt the attacks of the reformerc, its members, proul of this diftinction, have confidered it as their peculiar fandion to combat the opinions and to check the progrefs of the Protellants. They have made ufe of every art, and have employed every weapon againtt them. They have fet themfelves in oppofition to every contle or tolerating meafure in their favour. They have incelfantly firred up againlt them all the rage of ecclefiaftical and civil perlecution

Monks of other denominations have indeed ventured to teach the tame pernicioas doctrines, and have lech opaions equally inconfifent with the order and 1.appiue!'s of civil fociety. But they, from reafons which are obvious, have either delivered fuch opinions mih greater referve, or have propagated them with leff ficcefs. Whoever recollects the events which have happened in Europe during two centuries, will find that the Jefuits mas jufly be confidered as refponfible fior moft of the pernicious effects ariling from that corrupt and dangerous cafuiftry, from thofe extravasurt tents concerning ecclefiaftical power, and from that intelerant firit, which have been the difgrace of the church of Ron.c throughout that period, and which have brought fo many calanities upon civil fochety.

Sut, amidd many bad conforquences flowing from
the inflitution of this order, mankind, to mult be acknowledged, have derived from it fome confiderable advantages. As the Jefuits made the education of youth one of their capital objects, and as their firl attempts to eflablinh colleges for the reception of ailiantages dents were violently oppoled by the univerities in dif- from the ferent countries, it became neceflary for them, as the inftiution mof effectual method of acquiring the publis favour, of ther. to furpafs their rivals in fcience and induftry. This prompted them to cultivate the fludy of ancient literature with extraordiarary ardour. This put them upon various methods for facilitating the inftruction of youth; and, by the improvements which they made in it, they have contributed fo much towards the progrefs of polite learning, that on this account they have merited well of fociety. Nor has the order of Jefuits been fucceffful only in teaching the elements of literature; it has produced likewife eminent mafters in many branclies of fcience, and can alone boalt of a greater number of ingenious authors than all the other religious fraternities taken together.

But it is in the new world that the Jefuits have exhibited the molt wonderful difplay of their abilities, and have contributed molk cifefually to the benefit of the human fpecies. The conquerors of that unfortinate quarter of the globe had nothing in view but to plunder, to enllave, and to exterminate its inlabitants. The Jefuits alone have made humanity the object of their fettling there. About the beginning of the 19 th Setrement century, they obtained admillion into the fe:tile province of Paraguay, which fretclies acrofs the fouthern continent of America, from the botton of the mountains of Potofi to the confines of the Spanilh and Portuguefe fettlements on the banks of the river De la Plata. They found the inhauitants in a flate litte different from that which takes place antong men when they firlt begin to unite together; ftrangers to the arts, fubfilting precarioufly by bunting or filling, and hardly acquainted with the firft principles of fubordination and government. The Jefuits fet themfelves to inflruct and to civilize thefe favages. They taught them to cultirate the ground, to rear tame animals, and to build houfes. They brought them to live together in villages. They trained them to arts and inanufactures. They made them tatie the fweets of focisty, and accuftomed them to the bleffings of fecurity and order. Thefe people became the fubjects of their benefactors, who have governed them with a tender attention, refermbling that with which a father direcis his childien. Refpected and beloved almoft to adoration, a fer Jefuits prefided over fome hundred thoufand Indians. They maintained a perfect equality among all the members of the commurity. Each of them was obliged to labour, not for himfelf alone, but for the public. The produce of their fields, to gether with the fruits of their indultry of every fpecies, were depofited in common forehoufes, from which each individual received every thing neceffary for the fupply of his wants. By this inffitution, almoll all the paffions which difturb the peace of fociety, and render the members of it unhappy, were extinguilhed. A few magiltrates, chofen by the Indians themfelves, watched over the public tranquillity, and fecured obedience to the laws. The fanguinary punifhments frcquent under other governments were unknown. An

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Tefuits. admonition from a Jefuit, a fighit mak of infamy, or on tome lingubar occaticn, a few lafties with a whip, were fufficient to maintaing grod order anoong thele innocent and happy people.

But exan in this meritorious effort of the Jethits for the coot of mankind, the genius and lyirit of their order have mingled and are difcornible. They plaisly aimed at eltabliling in Paraguay an independent empize, futject to the fuciety nlone, and which, by the fuperior excellence of its conttitution and police, could learecly have failed to estend its dominion over all the fouthern continent of America. With this view, in order to prevent the Spaniards or Purtuguefe in the adjacent le:tlements from acquiring any dangerous influcnce over the jeople within the limits of the promince fubject to the fociety, the Jefuits endeavoured to infire the Indians with hatred and contempt of thefe nations. They cut off all intercourfe between their fubjects and the Spanilh or Portuguefe fettlements. They prohibised any private trader of either ration from entering their territories, When tl : 2 y were obliged to admit any perfon in a public character from the neirhbouring governments, they did not permit him to have any converfation with their fuhjeets; and no Indian was allowed even to enter the houfe where thefe ftrangers refided unlels ia the prefence of a Jefuit. In order to render any communication tetween them as difficult as polifible. they indutrioulty avoided giving the Indians any knowledge of the Spanith or of any other European language; but encouraged the different tribes which they had civilized to acquire a certain dialect of the Indian tongue. and laboured to make that the univerfal language throughout their dominions. As all thefe precautions, without military force, would have been infuthicient to have rendered their empire fecure and permanent, they in? ructed their Erbjects in the European arts of war. They formod them into bodies of cavalry and infantry, completely arned and regularly difciplined. They provided a great train of artillery, as well as magazines flored with all the implements of war. Thus they eftablithed an army fo numcrous and wellappointed, as to be formidable in a country where a few fichly and ill-difciplined battalions compofed all the military force kept on foot by the Spaniards or Portuguefe.

Such were the laws, the policy, and the egenius of this formidable order; of which, however, a perfect knowledge has only been attainable of late. Europe had obferved, for two centuries, the ambition and porres of the order. But while it felt many fatal effeats of thefe, it could not fully difcern the caufes to which they were to be imputed. It was unacquainted with :nany of the fingular regulations in the political conflitution or government of the Jefiuts, which formed the enterprifing firit of intrigue that diftinguilhed its members, and elevated the body itfelf to fuch a height of power. It was a fundamental maxim with the Jefuits, from their firf in'itution, not to publifh the rules of their order. Thefe they kept concealed as an impenetrable myftery. They never communicated them to Itrangers, nor even to the greater part of their own members. They refufed to produce them when required by courts of juftice; and, by a ftrange fulecifm in pulicy, the civil power in different countries
authorized or connived at the ellablifhment of an ordur of men, whofe comftitution and laws were concealed with a folicitude which alone was a good reafon fur having excluded them. During the profecutions lately carried on againl them in Portugal and France, the Jefuits have been fo incomliderate as to produce the myllerious volumes of their inflitute. By the aid of thefic authentic records, the principles of their government may be delincated, and the fources of their power inveliigated, with a degree of certain $y$ and puccifin, which, previous to that event, it was impoffible to attain.

The pernicious ffle as, however, of the fpirit and conftitution of this order, renderad it early omoxions to lome of the principal powers in Europe, and gradually brought on its downfal. The emperor Charles $V$. faw it expeoient to clieck its progrets in his dominions; it was expelled Engiand, by proclamation of James I. in 1604 ; Venice, ${ }^{11} 1600$; Portugal, in 1759; France, in 1764 ; Spaim and Sicily, in 1767; and totally fupprefled and abolitied by Pope Clement XIV. in 1773.
jesuli S bark. See Cinchona, Botany Index; and for its hifory and properties, fee Canchonis and Miteria Medica Index.

IESUS the Son of Stract, a native of Jerulalen, compoted about 200 B. C. the Book of Eccleniaticus, called by the Grecks ilavagzos, "replenithed with virtue;" who allo quote it under the tille of the MIjdom: of Solomon the fion of Sirach. His grandfon, who was alfo of the fame name, and a native Jerufalem, tranlated it from tie LIebrew into Greek about 121 B. C. We have this Greek vertion, but the Hebrew text is luf.

Imsus Christ, the Son of God, and Saviour of mankind, defcended from heaven, and took upon him the human nature in ludua, towards the conclufion of the reign of Herod the Great, hing of that country. The place of his birth was Bethlehem, a flourilhing city of Judah; but the year in which lie was born is not precifely atcertained. The moll general opinion is that it happened about the year of Kome $74^{2}$ or $7+9$, and about 18 months before the death of Herod. Four infpired writers have tranfritited to us an account oi the life of Jefus Chrift. They mencion particulariy his birth, lineage, family, and parents; but fay ver; little concerning his infancy and earlier youth. Herod being informed that the Melliah, or king of the Jews, fo much fpoken of by the prophets, waia now burn, being afraid that his kingdom fhould now be takea away, contrived how to deftroy his fuppofed rivai: but Chril, being carried, while very young, into Egypt, efcaped the cruelty of the tyrant; who, being determined to make fure work, made a general mal-. facre of the infants about Bethlehem, from the age of two years and under.

After the death of Herod, our Saviour was bruughe back to Judea; but we are totally ignorant of what lis employment was during the interval between his return thither and the time of his entering upon the minifry. We know valy, that when he was but 12 years of age, he difputed in the temple with the moll learned of the Jawilh doftors; whom he furprifed with his $k$ vowledge, and the anfivers he gave to their queftions. After this, as the fcripture tells us, he continued

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re'us Chrit.
continusd with his parents, and mas fubject to the:n, till he entcred upon his min:try. It is aid, indeed, though upon no fure foundation, that during this perioll he followed the trade of his father, who was a carpenter. In the 3 oth year of his age, he began his public miniltry; to which, the attention of the people was draim by the preaching of John, a prophet miraculuelly infpired of God to proclaim the exitence of the Saviour, as now defcended upon earth, and vifible to the eyes of a!l ; and by this prophet Chritt himfelf was baptized in the waters of Jordan, that he might not, in any point, neglect to anfirer the demands of the Jewifh law.

It is not neceflary here to enter into a particular detail of the life and actions of Jefus Chritt. Every one knows, that his life was one continued fcene of the molt perfect fanctity, and the pureft and molt active virtue; not only without fpot, but alfo beyond the reach of fufpicion. And it is allo well hnown, that by miracles of the moll itupendous kind, and not more ftupendous than falutary and beneficent, he difplayed to the univerfe the truth of that religion which he brought with him from above, and demonftrated the reality of his divine commiltion in the moft illustrious manner. For the propagation of his religion through the country of Judiea, our Saviour chofe 12 apoftles; whom, however, he fent out only once, and after their return kept thens conftantly about his perfon. But, befides thefe, he chofe other 70 , whom he difperfed throughout the country.

There have been many conjectures concerning the reafon why the number of apoftles was fixed at 12, and that of the other teachers at 75. The firt, huwever, was, according to our Saviour's own words (Matt. xix. 2S.), an allufion to the 12 tribes of Ifrael, thereby intimating that he was the king of thefe 12 tribes; and as the number of his other meffengers anfwers evidently to that of the fenators who compofed the Sanhedrim, there is a high degree of probability in the conjecture of thofe who think that Chrift by this number defigned to admonifh the Jews, that the authority of their Sanhedrim was now at an end, and that all power with refpect to religious matters was refted in him alone. His miniltry, however, was confined to the Jews; nor, while the remained upon earth, did he permit his apofles or difciples to extend their labours beyond this favoured nation. At the fame time, if we confider the illuftrious acts of mercy and benewolence that were performed by Chrift, it will be natural to conclude, that his faine mult foon have flread abroad in other cuuntries. Indeed this feems probable from a pafage in fcripture, where we are told that fume Greeks applied to the apoftle Philip in order to fee Jefus. We learn alfo from authors of no * See Ab. fmall note, that Abgarus * king of Edefia, being feized
with a fevere and dangerous illnefs, wrote to our Lord, imploring his affitance; and that Jefus not only fent him a gracious anfwer, but alio accompanied it with his picture, as a mark of his efteem for that pious prince. Thefe letters are ftill extant; lut by the judicious part of mankind are univerally looked upon as Spurious; and indeed the late Mr Jones, in his treatife entitled A new and full method of ferting the sanonical authority of the New Tefoment, hath ofiered
reafons which feem aimof unanfwerable againt the authenticity of the whole trmlaction.

The preaching of our Saviour, and the numberlefs micacles he performed, mace fuch an inaprefion on the boly of the Jewith nation, that the chiet priefts and leading men, jealous of his authority, and provoked at his reproaching them with their wicked lives, formed a confuiracy again! him. For a conliderabie line their defigns pruved abortive; but at lalt Iefus, knowing that be had fu?filed every purpofe for which he came into the world, fuffered bimelf to be taken through the treachery of one of his difcivies, named Oridas Ifoariot, and was bsought before the Sanlicdrim. In this affemoly he was acc:afed of blafonemy; and being afterwards brousht before Pilate the Raman governor, where he was accufed of ledition, $\mathrm{Pi}_{1}$. late was no fooner fet down to judge in this caufe, tha: he received a metrage from his wite, delizing bim to have nothing to do with the affair, having that very day had a frightful dream on account of our Saviour, whom the called that juf man. The governor, intimidated by this meflage, and itill more by the majetty of our Saviour himfelf, and the evident fallehood of the accufations brought againft him, was determined if polfible to fave him. Bat the clamours of an enraged populace, who at lalt threatened to accufe Pi late himfelf as a trator to the Roman emperor, got the better of his love of jultice, which indeed on other occations was not very fervent.

Our Saviour was now condemred by his judge, though contrary to the plainef dictates of reafori and jultice; was executed on a crofs between two thieves, and very foon expired. Having continued three days in a ftate of death, he rofe from the dead, and made himfelt vilible to his difciples as formerly. He converfed with them 40 days after his refurrection, and employed himfelf during that time in inifructing them more fully concerning the nature of his kingdom; and having manifefted the certainty of his refurrection to as many witneffes as he thought proper, he was, in the prefence of many of his difiples, taken up into heaven, there to remain till the end of the world. See Christianity.

JE'T, a black intlammable fubftance of the bituminous kind, harder than afphaltun, and fufceptible of a good polifh. It becomes electrical by rubbing, attracting light bodies like yellow amber. It livims on water, fo that its Specific gravity muft be lefs than 1000 ; notwithitanding which it has been frequently confounded with the lapis obfidiunus, the fpecific gravity of which, according to Kirwan, is no lefs than 1744 . It alfo refembles cannel coal extremely in its hardnefs, receiving a polifh, not foiling the fingers, \&c. fu that it has alfo been confounded with this. The diftistion, however, is eafily made betwixt the two ; for cannclcoal wants the electrical properties of jet, and is likewife fo heavy as to link in water ; its rpecific gravity being no lefs than 1273; whereas that of jet, as has already been faid, is lefs than 1000.
MI. Magellan is of opinion that jet is a true amber, differing from the yello:s kind only in the mere circumftance of colour, and being lighter on account of the jreater quantity of bitumizous mater which enters into its compolition. Whan burning it emits
fellows, by their own private authority; but he rontinned in Oxford till he was called ur a 10 to fij)forive continued manes like foftil fores; but always in fe-

Jewel.





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Jeswi, the chapel he withdrew again to his fudy till near midnight, and from thence to his bed; in which, when lie was laid, the gentleman of his bed-chamber read to bim till he fell afleep. This watchful and laborious life, without any recreation at all, except what his neceflary refrethment at meals and a very few hours of ref afforded him, wafted his life too faft. He died at Monkton-Farley, in 1571, in the 5oth ycar of his age. He wrote, 1. A riew of a feditious bull fent into England by Pope Pius V. in 1569. 2. A treatife on the Holy Scriptures. 3. An expolition of St Paul's two epistles to the Theflalonians. 4. A treatife on the facrament. 5. An apology for the national church. 6. Several fermons, controverfial treatifes, and other works.
" This excellent prelate (fays the Rev. Mr Granger) was one of the greatef champions of the reformed religion, as he was to the church of England what Bellarmine was to that of Rome. His admirable Apology was tranflated from the Latin by Anne, the fecond of the four learned daughters of Sir Anthony Coke, and mother of Sir Francis Bacon. It was publifhed, as it carne from her pen, in 1564, with the approbation of the queen and the prelates. The fame Apology was printed in Greck at Confantinople, under the direction of St Cyril the patriarch. His Defence of his Apology, againft Harding and other Popill divines, was in fuch elieem, that Queen Elizabeth, King James I. King Charles I. and four fucceflive archbihops, ordered it to be kept chained in all parithchurches for public ufe.
 to two fmall blocks whichare fufpended at the extremity of the main and fore top-fail yards, by means of an eye-bolt driven from without into the middle of the yard-arm, parallel to its axis. The ufe of thefe blocks is, to retain the upper part of the top-maft fudding-fails beyond the lkirts of the top-fails, fo that each of thofe fails may have its full force of action, which would be diminithed by the encroachment of the other over its furface. The lialiards, by which thofe ftudding-fails are hoifted, are accordingly peffed through the jewel-blocks; whence, communicating with a block on the top-mait head, they lead downwards to the top or decks, where they may be convemiently hoifted. See Sail.

JEWS, a name derived from the patiarch Judah, and given to the defcendants of Abraham by his eldeft fon Ilaac, who for a long time poffeffed the land of Pa lelline in Afia. and are now difperfed through all nations in the world.

The hiftory of this people, as it is the moft fingular, fo is it alfo the moft ancient in the world; and the freatelt part being before the beginning of profane hifory, depends entirely on the authenticity of the Old Tellament, where it is only to be found.-To repeat here arhat is faid in the facred writings would both be fupcrlluous and tedious, as thofe witings are in every perfor's hands, and may be confulted at pleafure. It feems moft proper therefore to commence the hiflory of the Jews from their return to Jerufalem from Babylon, and the rebuilding of their city and temple ander Ezra and Nehemiah, when the feripture leaves off any farther accounts, and 1 rofime hiftorians begin to tahe notice of them. We flal!, however, premife a
chronological lift of their judges and kings down to the captivity.

The Ifraelites had no king of their mation till Saul. Before him, they were governed, at firft by elders, as in Egypt; then by priaces of God's appointment, as Mofes and Jolhua; then by judges, fuch as Othniel, Ehud, Shamgar, Gideon, Jephthah, Samfon, Eli, Samuel; and laft of all by kings, as Saul, David, Solomon, Rehoboan, \&c.
A Lift of the Fudges of Ifrael in a Chronological Order.
The Numbers prefixed denote the 1ears of the World.
2570. The death of Johhua.

2585 . The government of the elders for about 15 years.
2592. An anarchy of about feven years. The hiftory of Micah, the conqueft of the city of Lailh by part of the tribe of Dan, and the war undertaken by the 11 tribes againf Benjamin, are all referred to this time.
2591. The firf fervitude under Cufhan-rifhathaim king of Mefopotamia began in 2591, and lafted eight years to 2599 .
2599. Othniel delivered Ifrael in the 40 th year after peace eftablithed in the land by Jothua.
2662. A peace of about 62 years, trum the deliverance procured by Othniel, in 2599, to 2662, when the fecond fervitude under Eglon king of the Nioabites happened. It lafted 18 years.
2679. Ehud delivers Ifrael.

After him Shamgar governed, and the land was in peace till the noth year after the frill deliverance procured by Othniel.
2699. The third fervitude under the Canaanites, which lafted 20 years, from 2699 to 2719 .
2719. Deborah and Barak deliver the llaelites: from the deliverance procured by Ehud to the end of Deborah and Barak's government, were 40 years.
2768. Abimelech the natural fon of Gideon is acknorsledged king by the Shechemites.
2771. He died at the fiege of Thebez in Paleftine.
2772. Tola after Abimelech governs for 23 years, from 2772 to 2795.
2795. Jair fucceeds Tola, and governs 22 years, from 2795 to 2816.
2799. The fifth fervitude unier the Philiftines, which latted 18 years, from 2799 to 2817 .
2817. The death of Jair.
2817. Jephthah is chofen head of the Ifraelites beyond Jordan ; he defeated the Ammonites, who oppreffed them. Jephthah governed fix years, from 2817 to 2823.
2823. The death of Iephthah.
2830. 1bzan governs feven years, from 2823 to 2830.
2842. Elon fucceeds Ibzan. He governs fiom 2830 to 2840.

Abdon judges Ifrael eight years, from 28 to to 28.8.
2848. The fixth fervitude, under the Philifines, which lafted 40 years, from 2848 to 2888.
2848. Eli the high-priet, of the race of Ithamar, govemed 40 years, the whole time of the-fervitude under the Philifines.
2849. The birth of Samfon.

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2387. The death of Samion, who was judge of Israel during the judicature of Eli the high-priett.
2388. The death of Eli, and beginning of Samuel's government, who fucceeded him.
2929 . The election and anointing of Saul, frit king of the Hebrews.

## A Chronological Lift of the Kings of the Hebrezus.

Saul, the firth king of the liraelites, reigned 40 years, from the year of the world 2909 to 2949.

Ithbotheth the for of Saul succeeded him, and reigned fix or fever years over part of ifrael, from 2949 to 2956.

David was anointed king by Samuel in the year of the world 2034 ; but did not enjoy the regal power till the death of Saul in 2949, and was not acknowledged king of all lirael till after the death of Intbotheth in 2096. He died in 2990 at the age of 70 .

Solomon his on fucceeded hins; be received the royal unction in the year 2989 . He reigned alone after the death of David in 2990. He died in 3029 , after a reign of 40 years.

After his death, the kingdom was divided; and the ten tribes having chofen Jeroboam for their king. Rehoboam, the for of Solomon, reigned only over the tribes of Judah and Benjamin.

The Kings of Judah.
Rehoboam, the for and 'ucceTor of Solomon, reigned 17 years; from the year 3029 to 3046 .
Abijam, three years, from $30+6$ to 3049 .
Ara, 41 years, from 3049 to 3090 .
Jehosaphat, 25 years, from 3090 to 3115 .
Jehoram, four years, from 3115 to 3119.
Ahaziah, one year, from 3119 to $3^{120}$.
Athaliah, his mother, reigned fix years, from $3^{120}$ to 3126 .

Joafh was fet upon the throne by Jehoiada the highprieft, in 3126 . He reigned 40 years, to the year $3^{165}$. Amaziah, 29 years, from 3165 to 3194.
Uzziah, otherwife called Ȧarialk, reigned 27 years, to the year 3221 . Then attempting to offer incenfe in the temple, he was ftruck with a leprofy, and obliged to quit the government. He lived after this 26 years, and died in 3276 .
Jotham his for took upon him the government in the year of the world $322 t$. He reigned alone in 3246 , and died in 3262 .

Ahaz fucceeded Jotham in the year of the world 3252. He reigned 16 years, to 3279 .

Hezekiah, 28 years, from 3278 to 3306.
Manalieh, 55 years, from the year of the world 3306 to 3361
Amon, 2 years, from 3361 to 3363.
Jofiah, 31 years, from 3363 to 3394 .
Jchoahaz, three months.
Eliakim, or Jehoiakim, I years, from the year 3397 to 3405 .

Jehoiachin, or Jechoniah, reigned three months and ten days, in the year 3405 .

Mattaniah, or Zedekiah, reigned 11 years, from $3+e 5$ to 3716 . In the lat year of hic reign Jerufalem was taken, the temple burnt, and Judah carried into captivity beyond the Euphrates.

Kings of Ifracl.
Jeroboam reigned 22 years, from 3029 to 3051.
Nadab, one year. He died in 305 t .
$B_{\text {a3fha, }} 22$ years, from 3052 to 3074 . Blah, two years. He died in 3075.
Zimri, Seven days.
O.nri, 11 years, from 3075 to 3086 . He had a competitor 'Tibni, who fucceeded, and died in what year we know not.

Ahab, 21 years, from 3086 to 3707.
Ahaziah, two years, from 3106 to 3 loS.
Jehoram, the for of Ahab, fucceeded him in 3108 .
He reigned 12 years, and died in 3120 .
Jehu ufurped the kingdom in 3120 , reigned 28 years, and died in ${ }^{1} 148$.

Jelhoahaz reigned 17 years, from $3{ }^{2}+8$ to $3 t \sigma 5$.
Joafh reigned 14 years, from 3165 to 3179 .
Jeroboam II. reigned 41 years, from 3179 to 3220.
Zacharias, 12 years, from 3220 to 3232 .
Shallum reigned a month. He was killed in 3233.
Menaliem, 10 years, from $\left.3^{2}\right\} 3$ to 3243 .
Pekahiah, two years, from $3^{2}+3$ to $32+5$.
Pekan, 20 years, from 3275 to 3265 .
Holhea, 18 years, from 3265 to 3283 . Here the kingdom of Ifrael had an end after a duration of 253 years.

Cyrus the Great, king of Perfia, having conquered cyrus pub. Babylon and almost all the weltern parts of Apia, per- thee a deceiving the defolate and ruinous condition in which cree for rethe province of Paleftine lay, formed a defign of re- Jeruiatem. flooring the Jews to their native country, and permitting then to rebuild Jerufatem and re-eftablifh their worfhip. For this purpofe he iffued out a decree in the firft year of his reign, about 536 B . C. by which they were allowed not only to return and rebuild their city, but to carry along with them all the faced veffels which Nebuchadnezzar had carried off, and engaged to defray the expence of building the temple himfelf. This offer was gladly embraced by the more zealous Jews of the tribes of Judah, Benjamin, and Levi; but many more, being no doubt lefs fanguine about their religion, chore to flay where they were.
I11 534. B. C. the foundations of the temple were laid, and matters feemed to go on profperoully, when the undertaking was fuddenly obstructed by the Samaritans. The le came at frt expreffing an earneft define to affit in the work, as they woithipped the fame God with the Jews: but the latter refuted their affiflance, as they knew they were not true 3 fraelites, but the defendants of thofe heathens who had been transplanted into the country of the ten tribes after their captivity by Shalmanezer. This refusal proved the force of all that bitter enmity which afterwards took place between the Jews and Samaritans; and the immediate confequence was, that the latter made all the opposition in their power to the going on of the work. At lat. however, all obstacles were fur-The temple mounted, and the temple finithed as related in the \&o co irvinbooks of Ezra and Nehemiah. The lat of thee chiefs'd. died about 499 B. C. after having reftored the Jewish worthip to its original purity, and reformed a number of abufes which took place immediately on its commencenent.

But though the Jews were norw reftored to the free exercife of religion, they were neither a free nor a powerful people as they had formerly been. They were few in number, and their country only a province of Syria, fubject to the kings of Perfia. The

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Surian governors conferred the adminiftration of affairs upon the high-priefts; and their accepting this office, and thus deviating from the law of Mofes, muit be confidered as one of the chief caules of the milfortunes which immediately befel the people, becaufe it made room for a fet of men, who afpired at this high office merely through ambition or avarice, without either zeal for religion or love for their country. It befides made the high-priefthood capable of being difpofed of at the pleafure of the governors, whereas the Mofaic inflitution had fixed it unalienably in the family of Aaron.-Of the bad effects of this practice a fatal inftance happered in 373 B. C. Bagofes, governor of Syria, having contracted an intimate friendflip with Jefhua the brother of Juhanan the highprieft, promifed to raife him to the poatifical office a few vears aiter his brother bad been invelted with it. Jelhua came immediately to Jerufalem, and acquainted his brother with it. Their interview happened in the inner court of the temple; and a fcufle enfuing, Jethua was killed by his brother, and the temple thus polluted in the moit feandalous manner. The confequence to the Jews was, that a heavy fine was laid on the temple, which was not taken off till feven years after.

The firf public calamity which befel the Jewihn nation after their reftoration from Babylon, happened in the year $351 \mathrm{~B} . \mathrm{C}$ : for having fome how or other difobliged Darius Ochus king of Perfia, he hefieged and took Jericho, and carried off all the inhabitants captives. From this time they continued faithful to the Perfians, infomuch that they had almofl drawn upon themfelves the difpleafure of Alexander the Great. That monarch baving refolved upon the fiege of Tyre, and being informed that the city was wholly fupplied with provifions from Judea, Samaria, and Galilee, fent to Jaddua, then high-prieit, to demand of him that fupply which he had been accullomed to pay to the Perfans. The Jewih pontiff excufed himfelf on account of his oath of fidelity to Darius; which fo provoked Alexander, that he had no fooner completed the reduction of Tyre than he marched againlt Jerufalem. The inhabitants, then, being with good reafon thrown into the utmoft conflernation, had recourfe to prayers; and Jaddua is faid, by a divine revelation, to have been commanded to go and meet Alexander. He obeyed accordingly, and fet out on his jusurney, drefled in his pontifical robes, at the head of all his priefts in their proper habits, and attended by the relt of the people drefied in white gar- ments. Alexander is laid to bave been feized with fuch awful refpect on feeing this venerable proceflion, that he embraced the high-prieft, and paid a kind of religious adoration in the name of God engraven on the front of his mitre. His followers being forprifed at this uncs:pected bchaviour, the Macedonian monarch informed them, that he paid that refpect not to the prielt, but to his God, as an acknowledgment for a vilion which the had been favoured with at Dia; where be hat been pronifed tlet cenquelt of Perfa, and encouraged in his expedition, by a perfon of much the lt me afpect and dreffed in the fame habit with the poutiff beforc him. He afterwards accompaniced Jaddua into Jerufalem, where he offered facrifices in the temple. The high-priclt Mowed him
alfo the prophecies of Daniel, wherein the deftruction of the Perfian empire by bimfelf is plainly fet forth; in confequence of which the king weint away highly fatisfied, and at his departure aked the high-priek if there was nothing in which he could gratify himtlif or his people? Jaddua then told him, that, according to the Mofaic law, they neither fowed nor ploughed on the feventh year ; therefore would eiteem it an high favour if the king would be pleafed to remit their tribute in that year. 'To this requetl the king readily yielded; and having confirmed them in the enjoyment of all their privileges, paticularly that of living under their own laws, he departed.

Whether this Mory deferves credit or not (for the whole tranfaction is not without realon called in queftion by fome), it is certain that the Jews were much favoured by Alexander; but with him their good fortune feemed alfo to expire. The country of Judeaniferable being fituated between Syria and Egypt, became fub. fate of the ject to all the revolutions and wars which the ambi- Jews after tious fuccellors of Alcxander waged againll each other Alexandert At firlt it was given, together with Syria and Phenicia to Leomedon the Nitylenian, one of Alexander's generals, but he being foun after itripped of the other two by Ptolemy, Judea was wext fummoned to yield to the conqueror. The Jews fcrupled to break their oath of fidelity to Leomedon; and were of confequence inxaded by Ptolemy at the head of a powerful army. The open country was eafily reduced; but the city being frongly fortified both by a:t and nature, threatened a frong refiltance. A fuperfitious fear for breaking the fabbath, however, prevented the befieged from making any defence on that day; of which Ptolemy being informed, he caufed an allault to be made on the fabbath, and eafily carried the place. At firt he treated them with great leverity, and carried 100,000 men of them into captivity; but ratleling foon after on their known fidelity to their conquerors, he reftored them to all the privileges they had enjoyed under the Macedonians. Of the captives he put fome into garrifons, and others he fettled in the countries of Libya and Cyrene. From thofe who fettled in the latter of thefe countries defcended the Cyrenean Jew's mentioned by the writers of the New Teitament.

Five sears after Pcolemy had fubdued Judea, he was forced to yield it to Artigonus, referving to himfelf only the cities of Ace, Samaria, Joppa, and Gaza; and carrying off an immenfe booty, together with a great number of captives, whom be fettled at Alexandria, and endowed with connderable privileges and immunities. - Antigonus beliared in fuch a tyrannical manner, that great numbers of his Jewih fubjects fled into Egypt, and others put themfelves under the protection of Seleucus, who alfo granted them confiderable privileges. Hence this nation came gradually to be furead over Syria and Afa Minor; while Judea feemed to be in danger of being depopulated till it was recovered by Ptolemy in 292. The aftairs of the Jews then took a more profperous turn, and continued in a thrising way till the reign of Ptolemy Philopator, when they were grievoully opprefied by the incurfions of the Samaritans, at the fame time that Antiochus 'Theos king of Syria invaded Galilee. Ptolemy, however, maxched againt Antiochus, and defeated him;

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him: after which, having gone to Jerufalem to offer facr tices, he ventured to profane the tempie iffeif by going into it. He penetrated through the two outer courts; but as he was about to enter the fanctuary, he was flruck with fuch dread and terror that he fell down half dead. A dreadful perfecution was then raifed againut cle Jewe, who had attempted to linder him in his impious attempt ; but this perfecution was ftopped by a till more extraordinary accident related under the article Egypt, No 30, and the Jews again received into favour.

About the year 204 B. C. the country of Judea was fubdued by Antiochus the Great ; and on this occafion the loyalty of the Jews to the Egyptians failed them, the whole nation readily fubmitting to the king of Syria. This attacliment fo pleafed the Syrian monarcls, that he fent a letter to lis general, wherein he acquainted him that he defigned to reftare Jerufalem to its ancient fplendor, and to recal all the Jews that had been driven out of it : that out of his fingular re$f_{\text {Fect }}$ to the temple of God, he granted them 20,000 pieces of filver, tawards the charges of the victims, frankincenfe, wine, and oil; 1400 meafures of fine wheat, and 375 meafures of falt, towards their ufual oblations: that the temple fhould be thoroughly repaired at his coll; that they hhould enjoy the free exercife of their religion; and reftore the public fervice of the temple, and the priefts, Levites, fingers, \&c. to their ufual functions : that no ftranger, or Jew that was unpurified, fhould enter farther into the temple than was allowed by their law ; and that no Reft of unclean beatts foould be brought into Jerulalem; not even their fins: and ais thefe under the penalty of paying 3200 pieces of filver iato the treafury of the temple. He further granted an exemption of taxes for three years to all the difperfed Jews that thould come within a limited time to Cettle in thee metropolis; and that all who had been fold for flaves within his dominions thould be immediately fot free.

This fudden profperity proved of no long duration. About the year 156 , a quarrel happened beween O:lias, at that time high prielt, and one Simon, governor of the tempie, which was attended with the moft fatal confequences. The caufes of this quarrel are unknown. The event, however, was, that Simon finding he could not get the better of Onias, informed Apollonius governor of Colofyria and Paleftine, that there was at that time in the temple an immenfe treafure, which at his pleafure might be feized upon for the ufe of the King of Syria. Of this the governor infantly fent intelligence to the king, who dilpatched one He liodorus to take poffeffion of the fuppofed treafurc. This perfon, through a miraculous interpofition, as the Je.ws pretend, failed in his attempt of entering the temple; upon which Simon accured the hieli-prieft to the people, as the perfon who had invited Heliodorus to Jeru!alem. This produced a kind of civil war, in which many fell on both dides. At laft Ouias having complained to the king, Simon was banifhed; but foon after, Antiochus Epiphanes having afcended the throne of Syria, Jafon, the high-prien's bro:her, taking advantage of the neceffities of Antiochue, purchafed from him the high-priefthood at the price of -350 talents, and obtained an order that his brother flould be fent to Antioch, there to be confncd for life.

Jafon's next ftep was to purchafe linerty, at the price of 152 talents more, to build a gymmaium at Jeinfit lem, fimilar to thafe which were ufed in the Grectian cities, and to make as many. Jews as he pleafed free citizens of Antioch. By means of thefe porvers, he became very foon able to form a dtrong party in Jutea; for his countrymen were exceedingly fond of the Gre cian cuftoms, and the freedom of the city of Antioch was a very valuable privilege. From this time there- 1 general fore a general apoliafy took place; the Service of the aphtaly temple was neglected, and Jafon abandoned himiclf ${ }^{\text {takes place. }}$ without remorfe to all the impieties and ablurdities of paganifm.

He did not, however, long enjoy his ill-acquired dignity. Hasing fent his brother Menelaus with the ufual tribute to Antiochus, the former took the opportunity of fupplanting Jafon in the fame manner that he had fupplanted Onias. Having offered for the highpriefthood 300 talents more than his brother had given, he eafily obtained it, and returned with his new commifion to Jerufalem. He foou gat himfelf a ftrong party : but Jafon proving too powerful, forced Menclaus and his adherents to retire to Antioch. Here, the better to gain their point, they acquainted Antiochus that they were determined to renounce their old religion, and wholly conform themlelves to that of the Greeks: which fo pleafed the tyrant, that he immediately gave them a force fufficient to drive Jafon out of Jerufalem; who thereupon took refuge among the Ammonites.

Menelaus being thus freed from his rival, took care to fulfil his promife to the king with regard to the apoltaly, but forgot to pay the money he had promifed. At latt he was fummoned to Antioch; and find. ing nothing but the payment of the promifed fum would do, fent orders to his brother Lyfimachus to convey to him as many of the facred utenfils belonging to the temple as could be fpared. As thele were all of gold, the apoftate foon raifed a futficient fum from them not only to fatisfy the king, but alfo to bribe the courtiers in his favour. But his brother Onias, who had been, all this time confined at Antioch, getting intelligence of the facrilege, made fuch bitter complaints, that an infurrection was ready to take place among the Jews at Antioch. Menelaus, in order to avoid the impending danger, bribed Andronicus, governor of the city, to murder Onias. I'his produced the moft vehement complaints as foon as Antiochus returned to the capital (he having been ablent for forse time in order to quell an infurrection in Cilicia) ; which at laft ended in the death of Andronicus, who was executed by the king's order. By dint of money, however, Menelaus Still found means to keep up his credit; but was obliged to draw fuch large fums from Jerufalem, that the inhabitarits at laf maffacred his brother Lyfimachus, whom he had left governor of the city in his alfence. Antiochus foon after took a journey to Tyre; upon which the Jews fent deputies to him, both to judify the death of Lyfimachus, and to accufe Menelaus of being the author of all the troubles which had happened. The apoftate, however, was never at a lofs while he could procure money. By means of this powerful argument, he pleaded his caule fo etfectually, that the deputies were not only call, but put to death; and this unjuf fentence gave the traitor fuch a complete victury

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cre: all his cnemies, that from thenceforth he commenced a downright tyrant. Jerufalem was deftitute of protectors; and the fanhcdrim, if there were any zealous men left among them, were fo much terrified, that they durft not oppofe him, though they evidently faw that his defign was finally to eradicate the religion and liverties of his country.

In the mean time, Antiochus was taken up with the conquelt of Lgypt, and a report was fome how or other furead that he lad been killed at the fiege of Alexandria. At this news the Jews imprudently foowed fome figns of joy; and Jafon thinking this a proper opportumity to regain his loft dignity, appeared before Jerufalem at the head of about 1000 refolute men. The gates were quickly opened to him by fome of his friends in the caty; upon which Menelaus retired into the citadel, and Jafon, mindiasg nothing but his refentment, committed the molt horid butcherics. At laft he was obliged to leave both the city and commtry, on the news that Antiochus was coming with a power. ful army againt him; for that prince, highly provoked at this rebellion, and efpecially at the rejoicings the Jews had made on the report of his death, had actually refolved to punifl the city in the fevereft manner. Accordingly, about 170 B. C. having made himfelf maller of the city, he behaved with fuch csuelty, that within three days they reckoned no fewer than 40,000 killed, and as many fold for flaves. In the midft of this dreadful calamity, the apoftate Menelaus found means not only to preferve himfelf from the general flaughter, but eren to regain the good graces of the king, who, having by his means plundered the temple of every thing valuable, returned to Antioch in a kind of triumpl. Before he departed, however, he put Judea under the government of one Philip, a barbarous Phrygian; Samaria under that of Andronicus, a perfon of a fimilar difpofition; and left Menelaus, the moft hateful of all the three, in poffellion of the high-priefthood.

Though the Jews fuffered exceedingly under thefe tyrannical governors, they were ftill referved for greater calamities. About 168 B. C. Antiochus having been mof feverely mortified by the Romans, took it into his head to wreak his vengeance on the unhappy lews. For this purpofe he difpatched Apollonius at the head of 22,000 men, with orders to plunder all the cities of Judea, to murder all the men, and fell the women and children for f...ves. Apollonius accordingly came with his army, and to outward appearance with a peaceable intention; neither was he fufpected by the Jews, as he was fuperintendant of the tribute in Palefline. He kept himfelf inactive till the next falbbath, when they were all in a profound quiet : and then, on a fudden, commanded his men to arms. Some of them he fent to the temple and fynagogues, with orders to cut in pieces all whom they found there; whitf the reft going though the freets of the city maffacred all that came in their way; the fuperfitious Jews not attempting to make the leaf refiltance for fear of breaking the fabbath. He next ordered the city to be phonThe templedered and fet on fire, pulled down all their flately profaned buildings caufed the walls to he demolifhed, and carand the Tewith relugion at obined.
ried away captive about 10,000 of thofe who had cfaped the flaughter. From that time the fervice of the temfle was totally abandoned; that place laving
been quite polluted, both with the blood of multitudes who liad been killed, and in various other ways. The Syrian troops built a large fortrefs on an eminence in the city of David; fortified it with a ftrong wall and dately towers, and put a garrifon in it to commard the temple, over-againf which it was built, fo that the foldiers could eafily fee and fally out upon all thofe who attempted to come into the temple; fo many of whom were continually plundered and murdered by them, that the reft, not daring to ftay any longer in Jerufalem, fled for refuge to the neighbouring nations.

Antiuchus, not yet fatiated with the blood of the Jews, refolved either totally to abolifh their religion, or deltroy their whole race. He therefore ifiued out a decree that all nations within his dominions fhould forfake their old religion and gods, and worhip thofe of the king urder the molt fevere penalties. To make his orders more effectual, the fent overfeers into every province to fee them Itrictly put in exccution ; and as he knew the Jews were the only people who would difobey them, fpecial directions were given to have them treated with the utmof feverity. Atheneas, an old and cruel minifter, well verfed in all the pagan rites, was fent into Judea. He began by dedicating the temple to Jupiter Olympius, and letting up his fatue on the altar of burnt-offerings. Another leffer altar was railed before it, on which they offered facrifices to that falfe deity. All who refufed to come and worfhip this idol were either maflacred or put to fome cruel tortures till they either complied or expired under the hands of the executioners. At the fame time, altars, groves, and ftatues, were raifed everywhere through the country, and the inhabitants compelled to worltip them under the fame fevere penalties; while it was inftant death to obferve the fabbath, circumcilion, or any other inflitution of Mofes.

At laft, when valt numbers had been put to cruel Reftored bs deaths, and many more had faved their lives by their Nattathias. apoffafy, an eminent prieft, named Matiathias, began to dignalize himfelf by his bravery and zeal for reli. gion. He had for fome time been ubliged to retire to Modin his native place, in order to avoid the perfecution which raged at Jerufalem. During his recefs there, Apelles, une of the king's officers, came to oblige the inhabitants to comply with the above-mentioned orders. By him Mattathias and his fons were addreffed in the mofl earneft mauner, and had the moft ample promifes made them of the king's favour and protection if they would renounce their religion. But Mattathias anfwered, that though the whole Jewift nation, and the whole world, were to conform to the king's edict, yet both he and his fons would continue faithful to their God to the lalt minute of their lives. At the fame time perceiving one of his countrymen juft going to offer facrifices to an idol, he fell upon him and intlantly killed him, agreeable to the law of Mofes in fuch cales. Upon this his fons, fired with the fame zeal, killed the officer and his men ; overthrew the altar and idol ; and ruining about the city, cried ont, that thofe who were zealous for the law of God hould follow them ; by which means they quickly faw themfelves at the heat of a numerous troop, with whom they foon after withdrew into fome of the deferts of Judea. They were followed by many others, fo that in a fhort time they found themfelves in a condition to refilt their cnemies;

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and having conifiered the danger ，o which they were expofed by their fcrupulous obfervance of the fabbath， they refolved to defend themfelves，in cafe of ain attack， upon that day as well as upon any other．
In the year 167 B ．C．Mattathias Ending that his followers daily increafed in number，began to try his ffrength by attacking the Syrians and apoftate Jews． As many of thefe as he took he put to death，but forced a much greater number to lly for refuge into foreign countries；and having foon ifruck his enemies with terror，he marched from city to city，overturned the idolatrous altars，opened the Jewrih fynagogues， made a diligent fearch after all the facred books，and caufed frefli copies of them to be written；he alfo caufed the reading of the Scriptures to be refumed，and all the males born fince the perfecution to be circumcifed．In all this he was attended with fuch fuccefs，that be had extended his reformation through a coulfderable part of Judea within the fpace of one year：and would pro－ bably have completed it，had lie not been prevented by death．
ploits of Mattathias was fuccceded by his fon Iudas，furna－ das Mac－med Maccabeus，the greateft uninfpired hero of whom the Jews can boalt．His troops amounted to no more than 6000 men；yet with thefe he quickly made him－ felf mafter of fome of the firongeft fortrefies of Judea， and became terrible to the Syrians，Sarnaritans，and apoitate Jews．In one year he defeated the Syrians in five pitched battles，and drove them quite out of the country；after which he purified the temple，and re－ flored the true worhip，which had been interrupted for three years alr！a half．Only one obitacle now re－ mained，viz．the Syrian garrifon above－mentioned， which had been placed over againlt the temple，and which Judas could not at prefent redace．In order to prevent them from interrupting the worthip，however， he fortified the mountain on which the temple ftood， with a high wall and itrong towers round about，leaving a garrifon to defend it；making fome additional forti－ fications at the fame time to Betizura，a fortrefs at about 20 miles dillance．
In the mean time Antiochus being on his return from an unfuccefful expedition into Perfia，received the diagreeable news that the Jews had all to a man revolted，defeated his generals，driven their armies out of Judea，and reftored their ancient worhip．This threw him into fuch a fury，that he commanded his charioteer to drive with the utmoft feeed，threatening utterly to extirpate the Jewifh race，without leaving a fingle perfon alive．Thefe words were fcarce uttered， when he was feized with a violent pain in his bowels， which no remedy could cure or abate．Bat notwith－ flanding this violent fhock，fuffering himfelf to be hur－ ried away by the tranfports of his fury，he gave orders for proceeding with the fame precipitation in his jour－ ney．But while he was thus haftening forward，he fell from his chariot，and was fo bruifed by the fall，that his attendants were forced to put him into a litter． Not being able to bear even the motion of the litter， he was forced to halt at a town called Tabre on the confines of Perfia and Babylonia．Here he kept his bed，fuffering inexpreffible torments，occafioned chief－ ly by the vermin which bred in his body，and the ftench，which made him infupportable cven to himfelf． But the torments of his mind，caufed by his rellecting
on the fomer astions of his life，furpaffed by many degrecs thofe of his body．P＇ulybius，who i：a his account of this prince＇s death agrecs with the Je．rita hiftorians，tells us，that the uneamefs of his mind grew at laft to a confant delirium or flate of madnefs，by reafon of leveral fpectres and apparitions of evil genii or fpirits，which lie imagined were continully re－ proaching bim with the many wicked actions of which he had been guilty．At laft，having langui！hed for fome time in this miferable condition，he cxpired，and by his deatly freed the Jews from the most inveterate encmy they had ever known．

Notwithftanding the death of Antiochus，however， the war was ftill carried on againt the Jews；but through the valour and good conduct of Judas，the Syrians were confantly defeated，and in 163 B．C．a peace was concluded upon terms very advantageous to the Jewifh nation．＇This tranquillity，however，was of no long continuance；the Syrian generals renewed their holfilities，and were attended with the fame ill fuccefs as before．Judas defeated them in five engage－ ments；but in the fixth was abandoned by all his men except 800 ，who，together with their chief，were flain in the year ：61 B．C．

The news of the death of Judas threw his country－Esploits of men into the utmoit confternation，and feemed to give new life to all their enemies．He was fucceeded，how－ ever，by his brother Jonathan ；who conducted mat－ ters with no lefs prudence and fuccefs than Judas had done，till he was treacheroully feized and put to death by Tryphon，a Syrian ufurper，who thartly after mur－ dered his own fovereisu．The traitor immediately prepared to invade Judea；but found all his projects fruftrated by Simon，Jonathan＇s brother．＇This pontifi repaired all the fortreffes of Judea，and furnihhed them with Freih garrifons，took Joppa and Gaza，and drove out the Syrian garrifon from the fortrels of Jerufalem； but was at latl treacheroutly murdered by a fon－in－law named Ptolemy，about 135 B．C．

Simon was fucceeded by lis fon Hyrcan；who not only thook off the yoke of Syria，but conquered the Samaritans，demolihed their capital city，and becane maller of all Palelline，to which he added the provinces of Samaria and Galilee；all which he enjoyed till with－ in a year of his death，without the leaf dilurbance from without，or any internal difcord．His reign was no lefs remarkable on the account of his great wifdom and piety at home than his conquefts abroad．He was the firft fince the captivity who had anfumed the royal title；and he raifed the Jewifh nation to a greater degrec of fplendor than it lad ever enjoyed funce that time．The author of the fourth book of the Macca－ bees alfo informs us，that in him three dignities were centered which never met in any other perfon，namely， the royal dignity，the high－priefthood，and the gift of propisecy．But the inflances given of this laft are very equirocal and fufpicious．The latt year of his reign，however，was embittered by a quarrel with the Pharifees；and which proceeded fuch a length as was thought to have thortened his days．Hyrcan had a！－ ways been a great friend to that fect，and they had hitherto enjoyed the mof honourable employments in the flate；but at length one of them，named Elea－ $z a r$ ，took it into bis head to quellion Hyrcan＇s legiti－ macy，alleging，that his mother load formerly bect a

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Aove, and conferpiently that he was incapable of enjoyisg the high-prieithood. This report was credited, or :retended to be fo, by the whole feat; which irritated the high-pieft to fiels a degree, that he joined lie Sadducces, and could never afterwards be recoiciled to the Plarifces, who therefore raifed all the tronbles and feditions they could diring the froit time he live J .

Hyrcan died in 107 B. C. al:A was furceeded by his cidell fon Aiftobulus, who conquered lturea, but proved a moft cruel and barbarons tyrant, pollating his hands with the blood evoll of his mother and one of his brothers, keeping the reft clofely confined during his reign, which, however, was but thots. He was fucceeded in 105 by Alexander Jannous, the greateft conqueror, next to King David, that evcr fat on the Jewih throne. He was hated, hovever, by

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Conters he twerr: his fon $\mathrm{Hy}:-$ camu) ald Ariitobu• lus. the Pharilees, aud once in danger of being killed in a tumult excited by them; but having caufed his guards to fall upon the mutinous mob, they killed 6000 of them, and difperfed the ref. After this, finding it impolfible to remain in quiet in his own kingdom, he left Jerufalem, with a dcfign to apply himelf wholly to the extending of his conquelts; but while he was bufied in fubduing his foreign enemies, the Pharilees yaifed a rebellion at home. This was quathed in the ycar $86 \mathrm{~B} . \mathrm{C}$. and the rebels were treated in the moft inhuman manner. 'The faction, however, was by this means fo thoroughly quelled, that they never dared to lift up their heads as along as he lived: and Alexander having made feveral conquelts in Syria, died about $79 \mathrm{~B} . \mathrm{C}$.

The king left two fons, Hyrcanus and Arifobulus; but bequeathed the government to his wife Alexandra as long as the lived: but as he law her greatly afraid, and not without reafon, of the refentment of the Pharifees, he defired his queen, juft before his death, to fend for the principal leaders of that party, and pretend to be entirely devoted to them; in which cafe, he aflured her, that they would fupport her and her fons alter her in the peaceable poffeffion of the government. With this advice the queen complied; bui found herfelf much embarrafted by the turbulent Pharifees, who, after feveral exorbitant demands, would at laft be contented with nothing lefs than the total extermination of their adverfaries the Sadducees, As the queen was anable to refift the ftrength of the phatifaic faction, a mof cruel perfecution immediately took place againft the Sadducees, which continued for four years; until at laft, upol: their earneft petition, they were difperfod among the feveral garrifons of the kingdom, in order to fecure them from the violence of their enemies. A few years after this, being feized with a dangerots ficknefs, her youngell fon Arifobulus colleefed aftrong party in order to fecure the crown to himfelf; but the queen being difleafed with his condued, appointed her vher fon Hyrearins, whom the had before made high-prieth, to fucceed her alfo in the royal dignity. Soon after this the expired, and left her two fons competions for the crown. The Pharifees raifed an army againft Ariftobulus, which almont infantly deferted to him, fo that Hyrcanus found himelf obliged to accept of peace upon any terms; whirit, ho: ever, was not granted, till the later had abandoned all title both to the royal and pontifical
dienity, and contented himfelf with the enjorment of his peculiar patrimony as a private perton.

But this depofition did not extinguifh the party of Hyranus. A new cabal was raifet by Antipater an Iluman profelvte, and father of Iferod the great; who carried of flyreams intn Arabia, under pretence that his life was in danger if he remamed in Judea. Here he applied to Aretas king of that country, who madertook to reftore the depuled monarch; and for that furpofe invaded Judea, defeated Ariftobulns, and kept him clofely befieged in Serufalem. The iaticr The Ro. bad recourf to the Romans; and heving bribed Scau- mans calle rus, one of their generals, he defeated Aretas with in by Arithe lofs of 7220 of his men, and drove him quite out of the country. The two brothers next fent prefents to Pompey, at that time commander in chief of all the Roman forces in the eat1, and whom they made the artitrator of their difierences. But he, tearing that Ariftobulus, againft them he intended to declare, might obetruct his intended expedition againtt the Na batheans, difmiffed them with a promife, that as foon as he had fubdued Aretas, he would come into Judea and decide their controverfy.

This delay gave fuch offence to Arifolulus, that he fucidenly departed for Judea without even taking leave of the Roman general, who on his part was ro lefs offended at this warat of refpect. The confequence was, that Pompey entered Judea with thofe troops with which he had defigned to act againft the Nabatheans, and fummoned Ariltobuilus to appear before him. The Jewifh prince would gladly have been excufed; but was forced by his own people to comply with Ponpey"s fummons, to avoid a fiar with that general. He came accordingly more than once or twice to him, and was difmiffed with great promifes and marks of friendfhip. But at laft Pompey inlifted, that be foould deliver into his hands ail the fortified places he pofeffed; which let Ariftobulus plainly fee that he was in the interelt of his brother, and upon this he Hed to Jerufalem with a defign to oppofe the Romians to the utmolt of his power. He was quickly followed by Pompey; and to prevent hoflilities was at laft forced to go and throw himfelf at the feet of the haugh. ty Roman, and to promife him a confiderable fum of money as the reward of his forbearance. This fubmiffion was accepted; but Gabinius, being fent with fome troops to receive the flipulated fum, was repul. fed by the garrifon of Jerufalem, who thut the gates againit him, and refufed to fulfil the agreement. This difappointment fo exafperated Pompey, that he inmediately marched with his whole army againt the city.
The Roman general firf fent propofals of peace; Jenufatere but finding the Jews refolved to ftand out to the laft, taken by he began the fiege in form. As the place was Itrong- Pompey. ly fortified both by nature and art, he might have found it very difficult to accomplifh his defign, had not the Jews been fuddenly feized with a qualm of confcience refpecting the obfervance of the fabbath-day. From the time of the Maccabees they had made no fcruple of taking up arms againft an offending enemy on the fabbath; but now they difcovered, that though it was lawful on that day to ftand on their defence in cafe they were actually attacked, yet it was unlawful to do any thing towards the preventing of thofe pre-

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w:. puratives which the enemy made towards fuch future aliaults. As therefore they never moved an hand to hinder the erection of mounds and batteries, or the making of breaches in the walls, on the fabbath, the befiegers at latt made fuch a confideralle breach on that day, that the garrifon could no longer refift them. The city was therefore taken in the year $\sigma_{3} \mathrm{~B}$. C. $\mathrm{I}=, 000$ of the inhabitants were flaughtered, and many more died by their own lands; while the priefts, who piere oficering up the ufual prayers and facrifices in the temple, chofe rather to be butchered along with their brethren, than fufter divine fervice to be one moment interrupted. At laft, after the Romans had fatiated their cruelty with the death of a valt number of the inhabitants, Hyrcanus was reflored to the pontifical dignity with the title of prince; but forbid to alime the title of king, to wear a diadem, or to extend his territories beyond the linnits of Judea. To prevent future revolts, the walls were pulled down; and Scaurus was left governor with a fufficient force. But befuse he departed, the Roman general gave the Jews a till greater ofience than almoft any thing he had hitherto cione; and that was by entering into the moit facred receffes of the temple, whicre he took a view of the golden table, candeftick, cenfers, lamps, and all the other facred velfels; but, out of refiect to the Deity, forebore to touch any of them, and when he came out commanded the priefts immediately to purify the temple according to cultom.

Pompey having thus fubdued the Jervilh nation, fet out for Rome, carrying along with him Ariflobulus and this two fons Alesander and Antigonus, as captives to adorn his future triumph. Ariftobulus himfelf and his fon Antigonus were led in triumph; but Aleyander found means to efcape into Judea, where he saifed an army of 10,000 foot and 1500 horfe, and began to fortify feveral frong holds, from whence he made incurfions into the neixhbouring country. As for Hyrcanus, he had un fooner found himfelf freed from his rival brother, than he relapfed into his former iadolence, leaving the care of all his affairs to Antipater, who, like a true politician, railed not to turn the weaknefs of the prince to his umin advantage and the aggrandizing of his fanily. He forefaw, however, that he could not eafily comprafs his ends, unlefs he ingratiated himfelf with the Romans; and therefore fpared neither pains nor cof to gain their favour. Scaurus foon after received from him a fupply of corn and other provifions, without which his army, which he had led againit the metropolis of Arabia, would have been in danger of perithing; and after this, he prevailed on the king to pay 300 talents to the Romans, to prevent them from ravaging his country. Hyrcanus was now in no condition to face his eneny Alexander; and therefore had again recourfe to the Romans, Antipater at the fame tiane fending as many troops as he could fare to join thern. Alexander ventured a battle; but was defeated with confiderable lofs, and befieged in a ftrong fortrefs named Alexandrion. Here he would have been forced to furrender; but his mother, partly by her addrefs, and partly by the fervices fhe found means to do the Roman gencral, prevailed upon him to grant her fon a pardon for what was paft. The fortrefies weee then demolifhed, that they might not give occafion to frelli revolts; Hyrea-

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nus was again reftored to the pontifical dignity; and the province was divided into five feveral dilfricts, in each of which a feparate court of judicature was erected. The firft of thefe was at Jerufalem, the fecond at Gadara, the third at Amath, the tourth at Jeri-vernment cho, and the fifth at Sephoris in Galilee. Thus was the vernment government changed trom a monarchy to an arilo into an cracy, and the Jews now fell under a fet of domincer-aratiocracy. ing lord.
Soon after this, Arifobulus found ineans to efcape from his confinement at Rune, and raifed new troubles in Judea, but was again defeated and taken prifioner: his fon alfo renewed his attempts; but was in like manner defeated, with the lofs of near 10,000 of his followers; after which Gabinius, having fettled the affairs ot: Indea to Antipatcr's mind, refigned the government of his province to Crafus. The only tranfaction during his government was his plundering the temple of all its money and facred utenfils, amounting in the whole to 10,000 Attic talents, i. e. above two millions of our monsy. After this facrilege, Craffius fet out on his expedition againt Parthia, where he perifned; and his death was by the Jews interpreted as a divine jodgmen: for his impiety.

The war between Crefar and Pompey afforded the Jews $f_{d}$ Jews fome refpite, and likewife an opportunity of in- woured by gratiating themfelves with the former, which the artful Antipater readily embraced. His fervices were rewarded by the emperor. He confirmed Hyrcanus in his priefthood, added to it the principality of Judea, :o le entailed on his pofterity for ever, and reltored the Jewifh nation to their ancient rights and privileges; ordering at the fame time a pillar to be erected, whereon all thefe grants, and his own decree, fhould be engraved, which was accordingly done; and foon after, when Crefar himfelf came into Judea, he granted liberty alfo to fortify the city, and rebuild the wall which had been demolilihed by Pompey.

During the lifetime of Cafar, the Jews were fo highly favoured, that they could feareely be faid to feel the Roman yoke. After his death, however, the nation fell into great diforders; which were not finally quelled till Herod, who was created king of Judea by Marc Antony in 40 B. C. was fully eftablifhed oas the throne by the taking of Jerufalem by his allies the Rumans in $37 \mathrm{~B} . \mathrm{C}$. The immediate confequence of Herod this was another cruel pillage and mailacre : then fol-raifed to lowed the death of Antigonus the fon of Arillobulus, threne. Jewire who had for three years maintained his ground againt Herod, put to death his brother Phafael, and cut off Hyrcanus's ears, in order the more effectualiy to incapacitate him for the high-prielthood.

The Jews gained but little by this change of ma- Histyranny flers. The new king proved one of the greateft ty rants and cruelty. mentioned in hiftory. He began his reign with a cruel perfecution of thole who had fided with bis rival Antigonus; great numbers of whom he put to death, feizing and confifcating their efieels for his own ufe. Nay, fuch was his jealoufy in this laft refpect, that he caufed guards to be placed at the city gatee, in order to watch the bodies of thofe of the Antigonian faction who were carried out to be buried, left fome of their riches mould be carried along with them. Hic jealoufy next prompted him to decoy Hyreanus, the banihed pontiff, from Parthia, where he had taken

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Jewe. rufuge, that he might put him to death, though contrary to his noot lolemn promifes. His cruelty then feil upoar his own family. He had married Mariamne, the daughter of Hyrcarius; whofe brother, Ariftobulus, a young prince of grea: hopes, was made high-prieft at the intercetion of his mother Alexandsa. Eut the tyrant, confcious that Arillobulus bad a better right to the kingdom than himecelf, caufed him foom aftes to be drowned in a bath. The next wictim was his beloved gueen Masiamncherielf. Iterod had been fummoned to appear firfi before hiarc Antony, and then before Augufus, in order to clear himfelf from fome crimes laid to his charge. As he was, however, doubtful of the event, he left orders, that in cafe he was condemn. ed, Marianine fhould be put to death. This, together with the death of her father and brother, gave ber fuch an averfion for him, that the thowed it on all occafions. By this conduct the tyrant's refentment was at laft fo much inflamed, that having got her falfely accufed of infidelity, the was condemned to die, and executed accordingly. She fuffered with great refolution; but with her ended all the happireefs of her hufband. His love for Maviame increafed fo much after her death, that for fome time he appeared like one quite diffracted. His remorfe, however, did not get the beiter of his cruelty. The death of Mariamne was foon followed by that of her mother Alexandra, and this by the execution of feveral other perfons who had joined with her in an attempt to fesure the kingdom to the fons of the deceafed queen.

Herod, having now freed himfelf from the greatelt part of lis fuppofed enemics, began to flow a greater contempt for the Jewih ccremonies than formerly ; and introduced a number of heathenifi games, which made lim odious to his fubjects. Ten bold fellows at laft took it into their heads to enter the theatre where the tyrant was celebrating lome games, with daggers concealed under their clothes, in order to fiab him or fome of his retinue. In cafe they fhould mifcarry in the attempt, they had the defperate fatisfaction to think, that, if they perificd, the tyrant would be rendered thill more odious by the punifhment ir:liêted on them. Thry were not miftaken: for Hercd teing inforned of thair detign by one of his fpies, and caufing the alalums to be put to a molt excruciating death, the people were fo much exalperated againlt the informer, that they cut and tore him to pieces, and caf his fleily to the dogs. Herod tried in vain io difcover the authors of this affront; but at laft haring caufed fome wormen to be put to the rack, he extorted from them the names of the principal perfons :oncczied, whom he caufed imreediately to be put to death with their families. This produced fuch diffurbanccs. that, apprehending nothing lefs than a gencral rcvolt, he fet about fortifying Jerufalem with fcveral additional works, rebuilding Samaria, and putting garrifons into feveral fortrefles in Judea. Notwithfanding this, however, Herod had fhortly after an opportunity of regaining the affections of his fubjers in forme meafure, by his generoiity to them during a famine; lut as he foon relapled into his former cruelty, their love ras again turned into hatred, which continued till his 24 death.
the rems le, citics with many flately buildings. The mult re-
markabie and magninicent of thent all, however, was the temple at Jerufalem, which he is faid to hase raifed to a higher pitch of grandeur than even Solomon himelf had done. Ten thoufand artificers were immediately fet to rootk, under the direction of 1000 prietts, the beft dilled in carving, mafonry, \&ic. all of whom were kept in conftant pay. A thoufand carts were employed in fecching materizls; and fuch a number of other hands were employed, that every thing was got ready within the fpace of two years. After this, they fet about pulling down the old building, and rearing up the new one with the fame expedition: fo that the holy place, or temple, properly fo called, was finifhed in a year and a lalf; during which we are told that it never rained in the daytime, but only in the night. The remainder was Emilhed in fomewhat more than eight years. The temple, proper!y fo called, or holy place, was but 60 cubis high, and as many in breadth; but in the front he added two wings of floulders which projected 23 cubits more on each fide, and which in all made a front of 120 cubits in length, and as many in heiglt; with a gate to cubits high and 20 in breadth, but open and without any doors. The flones were white marble, 25 cuobits in length, 12 in height, and 9 in breadth, all wroughit and polithed with expuifite beauty; the whole refersbling a fately palace, whofe middle being confiderably raifed above the eatremities of each face, made it afford a beautiful vilta at a great dillance, to thofe who came to the metropolis. Inftead of doors, the gates clofed with very coflly veils, enriched with a variety of flowering of gold, filver, purple, and every thing that was rich and curious; and on each fide of the gates were planted two fately columns, from whofe cornices hung golden feftoons and wines, with their clufters of grapes, leaves, \&cc. curioufly wrought. The fuperltructure, however, which was properly reared on the old foundat:on without fufficient additions, proved too heary, and funk down about 20 cubits; fo that its height was reduced to 100 . This foundation was of an aftonifthing firength and beight, of which an account is given under the article Jerusaress. The platform was a regular fquare of a fladium or furleng on each fide. Lach front of the fquare had a fpacions gate or entrarice, enriched with fuitable ornaments; but that on the welt had four gatec, one of which led to the palace. ancther to the city, and the two cthers to the futurbs and fields. This inclofure was furrounded on the outfide with a ftrong and high wall of large forcs, well cemerted; and on the infide had on each front a ffately piazza or gallery, fupported by columns of fucla a bignefs, that three men could but juf: embrace them, their circumfrence being atout 27 fect. There were in all 162 of them, which fat ported a cedar ceiling of excellent workmanhip, and form. ed three galleries, the middlemoft of which was the largefl and higheft, it being 45 fect in breadth and 100 in leight, whereas thofe on each fide were but 30 feet wide and so in leight.

The piazzas and court were pared with marble of vartous colcurs ; and, at a fmall difance from the gallcries, was a fecond inclofure, furrounded with a flight of beautiful marole rails, with Aately columns at proper difances, on which were engraven certain admo. nitions in Greek and Latin, to fortid furangers, and
thofe
thofe Jews that were not purifed, to proceed fasther under pain of death. This inclolure had but onc gate on the eall fide; none on the welt ; but on the north and fouth it had three, placed at equal ditances from each other.

A third inclofure furrounded the temple, properly fo called, and the altar of burnt-offerings; and made what they called the court of the Hebrcous or Ifraelites. It was fquare like the reft : but the wall on the outfide was furromded by a tlight of $1+$ tteps, which hid a confiderable part of it; and on the top was a terrace, of about 12 cubits in breadt'?, which isent quite round the whole cincture. 'The eaft fide bad but one gate; the weit none; and the north and fouth four, at equal diftances. Each gate was afcended by fire fteps more before one could reach the level of the insward court; fo that the wall which inclofed it appeared within to be but 25 cubits high, though confiderably higher on the outfide. Oir the infide of each of thefe gates were raifed a couple of facious fquare chambers, in form of a parilion, 30 cubits wide and 40 in height, each fupported by columas of 12 cubits in circumference.

This inclofure had likewife a dowble flight of galleries on the inlide, fupported by a double row of columns; but the weftern fide was only one continued wall, without gates or galleries. The women had likewife their particular courts feparate from that of the men, and one of the gates on the north and fouth leading to it.

The altar of burnt-offerings was likessife high and fpacious, being 40 cubits in breadth, and 15 in height. The afcent to it was, according to the Mofaic law, fmooth, and without iteps; and the altar of unhewn fones. It was furrounded, at a convenient diftance, with a low wall or rail, which divided the court of the priefts from that of the lay Ifraelites; fo that thefe laft were allowed to come thus far to bring their offerings and facrifices; though none bat the priefts were allowed to come within that inclofure.

Herod caufed a new dedication of this temple to be performed with the utmolt magnificence, and prefented to it many rich trophies of his former victories, after the cultom of the Jewih monarchs.

This, and many other magnificent works, however, did not divert the king's attention from his ufunl jealoufies and cruelty. His fifter Salome, and one of his fons named Antipa:cr, taking advantage of this difpofition, prompted him to murder his two fons by Mariamne, named Alevander and Ariflobulus, who had been educated at the court of Auguftus in Italy, and were juntly admired by all who faw them. His cruelty fuon after broke out in an impotent attempt to deltroy the Saviour of the world, but which was attended with no other conferquence than the defrection of 2002 innocent children of his own fubjects. His mifery was alinglt brought to its Cummit by the difcovery of Antipater's defigns againf himfelf; who was accordingly tried and condemned for treafon. Something fill more dreadful, however, yet awaited him; he was fized with a moft loathfome and incurable dileafe, in which he was tormented with into?erable pains, fo that his life became a burden. At latt le died, to the grcat joy of the Jews, dive days after he had put Antipater to death, atu after havis:g divided hiskingdom among his
fons in the following mamer.-Archelaus had Judea; Autipas, or Herod, was tetrarch of Galilee and Perea; and Philip had the regions of Trachonitis, Gau'on, Batanea, and lanias, which be erected likewice into a tctrarchy: 'To his filter Salume he gave 50,000 pieces of muney, logether with the cities of Jannia, Azotus, and Phafaelis; befides fome confiderable legacies to his other relations.

The cruelty of this monfor accompanied him to his grave; nay, he in a manner carried it begond the grave. Being well apprifed that the less would rejoice at being freed from luch a tyrant, he bethought himfelf of the following infernal Aratagem to dam: their mirth. A fes days before his death, he fummoned all the heads of the Jers to repair to Jericho under pain of deatly; and, on their arrival, ordered them all to be thut up in the circus, giving at the fame time frict orders to his fifter Salome and her hufband to have all the prifoners butchered as foon a his breath was gone oui. "By this means (faid he), I thall not only damp the people's joy, but fecure a real mourning at my death." Thefe cruel orders, ho:s ever, were not put in execution. Immediately aftec the King's deatly, Salome went to the Hippodrome, where the heads of the Jews were detained, canfed the gates to be tlung open, and declared to them, that: now the king had no further oczalion for their attendance, and that they might depart to their refpective homes; after which, and not till then, the news of the king's death was publifhed. Tumults, feditions, and infurrections, quickly followed. Archelaus was op- Jew divipofed by his brethen, and obliged to appear at Rome fion of the before Auguftus, to whom many complaints were kingdom brought againft him. After heariag both parties, by Augulthe emperor made the following divifion of the kingdom: Archelaus had one half, under the title of ellmarch, or governor of a nation; together with a promife that he fhould have the title of king, as foon as he thowed himelf worthy of it. This ethnarchy contained Judea Propria, Idumea, and Samaria: but this lalt was exempted from one-fourth of the taxes paid by the reft, on account of the peaceable beha viour of the inhabitants during the late tumults. The remainder was divided between Philip and Herod; the former of whom had 'Trachonitis, Batanea, and Auranitis, together with a fmall part of Galilee; the latter had the reft of Galilee and the countries beyond the Jordan. Salome had half a million of filser, together with the cities of Jamna, Azotus, Phafaelis, and Afcalon.

For fome years Archelaus enjoved his government in peace ; but at !aft, both Jews and Samaritams, tired out witb his tyramnical behaviour, joined in a petition to Auguftus againlt him. The emperor immediately fummoned him to Rome, where, having heard his accufation and defence, he banilized him to the city of Archelac: Vienne in Dauphiny, and cunfifated all his effects.banibed, Judea being by this fertence reduced to a Roman and a Roprovisce, was ordered to be taved : and Crrehius the mingover* por of nor apgovernor of $y$, waspointed fent thither to fee it put in execution: which hasinguver Judea done, and fold the palaces of Archelaus, and feized upon all his treafure, he reiurned to Antioch, leaving the Jews in no fmal! ferment on account of this ne:v tas.

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Thus were the feeds of diffenfion form between the Jews and Romins, which ended in the moft lamentable cataltrophe of the former. 'The Jews, always impatient of a foreign yoke, knew from their prophecies, that the time was now come when the Melliah thould appear. O: confequence, as they expected him to be a great and powerful warrior, their rebellious and feditious fpirit was heightened to the greatelt degree; and they imagined they had nothing to do but take up arms, and vietory would immediately declare on their fide. From this time, therefore, the country was never quiet ; and the infatuated people, while they rejected the true Melfiah, gave themfelves up to the direction of every impoftor who chofe to lead them to their own deltruction. The govennors appointed by the Romans were alfo frequently changed, but feldom for the better. Avout the I 6 th year of Chrift, Pontius Pilate was appointed governor; the whole of whofe adminiltration, according to Jofephus, was one continued feene of venality, rapire, tyranny, and every wicked acion; of racking and putting innocent men in death, untried and uncondemned; and of every kind of favage cruelty. Such a govemor was but ill calculated to appeafe the ferments occafioned by the late tax. Indeed Pilate was fo far from attempting this, that he greatiy inflamed them oy taking every occafion of introducing his Itandards with images and pictures, confecrated mields, \&ic. into their city; and at laft attempting to drain the treafury of the temple, under pretence of bringing an aqueduct into Jerufalen. The mof remarkable tranfaction of his goremment, however, was his condemnation of Jesus CHRIST; feven years after which he was removed from ludea; and in a mort time Agrippa, the grandfon of Herod the

Agrippz ${ }^{28}$ He did not, however, long enjoy this honour ; for, on

## made king.

 his coming into Judxa, having railed a perfecution againft the Chriftians, and blafphemoully fuffering himfelf to be ilyled a God by fome deputies from Tyre and Siden, he was miraculoufly fruci: with a difeafe, which foon put an end to his life. The facred hiforian tells us, that he was eaten of worms; and Jofephus, that lie was feized with moft violent pains in his heart and bowels; fo that he conld not Lut reliect on tlie balenefs of thofe fatterers, who hat but lately complimented him with a kind of divine immortality, that was now about to expire in all the torments and agonies of a miferable mortal.On the deatlı of Agrippa. Judea was ence more reciuced to a provirice of the Roman empire, and had icce governors appointec over it. Thefe were Ventidius, Felix. Feltus Abbinus, and Getlus Florus.- Under their govermment the Jewih affairs went on from had to wo-fe; the country frarmed with robters and affaline; the latter corminting everywhere the moft unineard-of cruelies under the pretence of religion; and aoout $6+$ A. C. were joined by 18,000 :workmen, who had been employed in further repairing and beautifying the iemple. About this time difo, Geffins Florus, the laft and worlt governo: the lews ever had, was fent into the country. Jofephus feems at a laís for words to defcribe him by, or a monfer to compare hin to. His rapines, cruelties, comsiving for large fums with the banditi, and in a urod, his whole behaviour, was fo open and barefaced, that he was looked upon by the Jews more like
a bloody executioner, fent to butcher, than a magiflrate to govern, them. In this diftracted fitate of the country, many of the inhabitants forfook it to feek for an afylum fomewhere elle; while thofe who remained applied themfelves to Cellius Gallus, governor of Syria, who was at Jerufalem at the patiover ; befeeching him to pity their unhappy flate, and free them from the tyranny of a man who had totally ruined their country. Florus, who was prelent wben thefe complaints were brought againt him, made a mere jeft of them; and Ceitius, inftead of making a flrict inquiry into his conduct, difmiffed the lews with a general promife that the governor ftould hehave better for the future ; and fet himfelf about computing the number of Jews at that time in Jerufalem, by the number of lambs offered at that feftival, that he might fend an account of the whole to Nero. By his computation, there were at that time in Jerufalem 2,556,0こ0; though Jofephus thinks they rather amount. ed is $3,000,000$.

In the year 67 oegan the fatal war with the Romans, Caufe ut which was ended only by the deltrucion of Jerufalem. the latt The immediate caufe was the decifion of a contell war with with the Syrians concerning the city of Crefarea. The lews maintained that this city belonged to them, becaufe it had been built by Herod: and the Syrians pretended that it had always been reckoned a Greek city, fince even that monarch had reared temples and flatues in it. The contelt at laft came to fuch ant height, that both parties took up arms againft each other. Felix put an end to it for a time, by fending fome of the chiefs of each nation to Rome, to pleal their caule before the emperor, where it hung in fufpenfe t:11 this time, when Nero decided it againt the Jews. No fooner was this decifion inade public, tha: the Jews in all parts of the country flew to arms: and though they were everywhere the fufierers, yet. from this fatal period, their rage never abated. Nothing was now to be heard of but robberies, murders, and every kind of cruelty. Cities and villages were filled with dead bodies of all ages, even fucking babes. The Jews, on their part, \{pared neither Syrians nor the Romans. Romans, where they got the better of them; and thisterriter proved the deftruction of great numbers of their peace-maffacred ful brethren: 20,000 were matacred at Cxfarea, 50,000 at A!exandria, 2000 at Ptolemais, and 3500 at Jerufalem.

A great number of affafins, in the mean time, having joined the factious lews in Jerufalem, they beat the Romans out of Airtonia, a fortrefs adjoining to the temple, and another called Mroffaia; and likewife out of the towers called Phafacl and Mariamne, killing all who oppofed them. The Romans were at laft reduced to fuch ftraits, that they capitulated on the fingle condition that their lives nould be fared; notwithflanding which, they were all maflacred by the furious zealots: and this treachery was foon revenged on the faithful Jews of Scythopolis. Thefe had offered to altill in reducing their factious brethren; but their fincerity being fufpected by the townfmen, they obliged them to setire into a neighbouring wood, where, on the third night, they were maflacred to the number of 13,000 , and all their wealth carried off. The rebels, in the mean time, crolied the Jordan, and took the fortreffes of Nacheron
and Cyprus; which lait they razed to the ground, after having put all the Romans to the fword. - 'lhis brought Cellius Gallus, the Syrian governor, into Judea with all his forces; but the Jews, partly by treachery and partly by force, got the better of him, and drove him out of the country with the lofs of 5020 nien.

All this time fuch dreadful difenfions reigned among the Jews, that greet numbers of the better fort forefeeing the fad effects of the refentment of the Romans, left the city as men do a finking veffel : and the Chriltians, mindful of their Swiour's prediction, retired io Pella, a city on the other fide of Jordan, whither the war did not reach. Miferable was the fate of fuch as cither could not, or would not, leave that devoted city. Vefpalian was now ordered to leave Greece, where he was at that time, and to march with all fpeed into Judea. He did io accordingly at the head of a powerful army, ordering his fon 'l'itus in the mean time to bring two more legions from $A$ lexandria; but before he conid reach that country, the Jews had twice attempted to take the city of Afcalon, and were each time repulfed with the lofs of 10,000 of their number. In the beginning of the year 68, Velpafian entered Galilee at the head of an army of 60,000 men, all completely armed and excellently difciplined. He firft took and burnt Gadara: then he laid fiege to Jotapa, and took it after a fout reciftance; at which he was fo provoked, that he caufed every one of the Jerws to be maflacred or carried into captivity, not ore being left to carry the dreadful news to their brethren. Forty thoufand perifhed on this occafion: only 1200 were made prifoners, among whom was Iofephus the Jewinh hiforian. Japha next fhared the fame fate, after an obitinate fiege; all the men being maffacted, and the womes and children carried into captivity. A week after this, the Samaritans, who lrad allembled on Mount Gerizzin, were almot all put to the lword, or perifhed. Joppa fell the next victim to the Rowaan vengeance. It had been formerly laid Wute by Ceffius; but was now repeopled and fortified by the feditious Jews who infelted the couniry. It was taken by form, and thared the lame fate with the ref. Four thoufand Jews attempted to efcape by taking to their flips; but were driven back by a fudden tempef, and all of them were drowned or put to the fword. Tarichea and Tiberias were next taken, but part of their inhabitants were fpared on account of their peaceable difpofitions. Then followed the ileges of Gamala, Gifchala, and Itabyr. 'Ihe firll was taken by thorm, with a dreadful naughter of the Jews; the lait by ftratagem. The inhahitants of Gifchala were inclinabie to furrender : but a feditious Jew of that town, named John, the fon of Levi, head of the laction, and a vile fellow, oppofed it; and, having the mod at his back, overaved the whole city. On the frbbath he begged of Titus to forbear hotilities till to morrow, and then he wowid accept his offer; but intead of that, he fed to Jeruflem with as nany as unold follow him. The Romans, as foon as they were intormed of his fight, purfued, and killed bocz of his follovers on the road, and brought back rear 3000 women and children prifoners. The inlazlifnts l:en f.raendered to Titus; and only the factious
were punimed; and this completed the reaction of Galilee.

The lemifh nation by this time was divided into Diffrent two very oppofite parties: the one forefeeing that fictions this war, if continucd, mult end in the total ruin anong the of their country, were for putting an end to it by lub- Jews. mitting to the Romans; the other, which was the remains of the faction of Iudas Gaulonites, breathed nothing but war and confufion, and oppofed all peaceable meafures with invincible obftinacy. This laf, which was by far the mof numerous and powerful, conitited of men of the vileit and moit protligate characters that can be paralleled in hiftory. They were proud, ambitious, ciuel, rapacious, aind committed the moft horrid and unnatural crimes under the malk of religion. They affirmed everywhere, that it was offering the greateft difionour to God to fubmit to any earthly potentate ; much lefs to Romans and to heathens. This, they faid, was the only motive that induced them to take up arms, and to bind themfelves under the ftrictef obligations not to lay them down till they had either totally extirpated all foreign authority, or perihhed in the attempt.- This dreadful diffenfion was not confined to Jerufalem, but had infected all the cities, towns, and villages, of Paleitine. Even houles and families were fo divided againtt each other, that, as our Saviour had cxprelisly foretold, a man's greatelt enemies were often thofe of his own family and houfebold. In fhort, if we may belicve Jofephus, the zealots acted more like incarnate devils than like men who had any fenic of humanity left them.-This obliged the contrary party likewife to rife up in arms in their own defence againt thofe mif. creants; from whom, bowever, they fuffered much more than they did even from the exafperated Ro-mans.-'The zealots began their outrages by murdering all that oppofed them in the countries round about. Then they entered Jerufalem; but met with a itout oppofition from the other party headed by Ananus, who had lately been high-prieft. A fierce enganement enfixed between them; and the zealots were ditiven into the inner cincture of the temple, where they were clofely befieged. John of Gifchala above-mentioned, who had pretended to fide with the peaceable party, was then fent with terms of accommodation; but, inftead of advining the befieged to sccept of them, he perfuaded them itill to hold out, and call the Idumeans to their affीance. They did fo, and procured 20,000 of them to come to their relief; but the fe new allies were refufed admittance into the city. On that night, however, there happencd fuch a violent form, accompanied with thunder, lightning, and an earthquake, that the zealots from within the inner court fawed the bolts and hinges of the temple-gates without being heard, forced the guards of the befiegers, fallied into the city, and led in the Idumeans. The city was inftantly filled with butcherias of the molt horrid kind. Parely to put any of the oppofite party to death was thought too mild a punithment: tircy mut have the pleafure of murdering them by inches: fo that they made it now their diverfion to put them to the moft exquifite tortures that could be invented ; nor could they be provailed upon to difpatch them till the violence of their torments had rendered them quite

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quite ircapable of feeling them．In this manner pe－ sibhed 12,000 perfons of noble extraction，and in the flower of their age ；till at laft the Idumeans com－ plained lo much againft the putting fuch numbers to deails，that the zealots thought proper to ereet a kind of tribunal，which，however，was intended not for judgment but condemnation：for the judges having once acquitted a perfon who was manifefly innocent， the zealuts not only murdered hins in the temple，but depofel the new－created judges as perfons unfit for their olfice．

The zealots，after having exterminated all thofe of any charafter or diltinction，began next to wreak their vengennce on the con：mon people．This obliged many of the Jews to forfake Jerufalem，and take refuge with the Romans，though the attempt was very hazaidous； for the zealots had all the avenues well guarded，and failed not to put to death fuch as fell into their lands． Vefpafian in the mean time flaid at Ciefarea an idle fpec－ tator of their outrages；well knowing that the zealots were fighting for him，and that the frength of the Iewifh nation was gradually wafting away．Every thing fucceeded to his wilh．The zealots，after having maf－ facred or driven away the oppofite party，turned their arms againft each other．A party was formed againft John，under one Simon who had his head－quarters at the fortrefs of Maffada．This new mifcreant plundered， burned，and maffacred，wherever be came，carrying the fuoil into the fortrefs abore－mentioned．To increafe his party，he caufed a proclamation to be publifhed，by which he promifed liberty to the flaves，and propor－ tionable encouragement to the freemen who joined him．This ftratagem had the defired effeet，and he foon faw himfelf at the head of a confiderable army． Not thinking himfelf，however，as yet maller of force fufficient to befiege Jerufalem，he invaded Idumea with 20,000 men．The Idumeans oppofed him with 25,000 ； and a harp engagement enfued，in which neither party was viclorious．But Simon，foon after，having corrupted the Idumean general，got their army delivered up to him．By this means he eafily becane matter of the country；where he committed fuch cruelties，that the miferable inhabitants abandoned it to feek for Melter in Jerufalem．

In the city，matters went in the fame way．John tyranized in fuch a manner，that the Idumeans re－ volted，killed a great number of his men，plundered his palace，and forced him to retire into the temple． In the mean time the people，having taken a notion that he would fally out in the night and fet fire to the city，called a council，in which it was refolved to admit Simon with his troops，in order to oppofe John and his zealots．Simon＇s firll attempt againf his rival， howcrer，was ineffectual，and he was obliged to con－ tent himfelf with befieging the zealots in the temple． In the mean time，the mileries of the city were in－ creafed by the flarting up of a third party headed by one Eleazar，who feized on the court of the priells， and kept John confined within that of the lfraelites． Eleazar kept the avenues fo we！l guarded，that none sere admited to come into that part of the temple but thofe who came thither to offer facrifices；and it ＂as by thefe offerings chient that he maintained him－ felf and his men．John by this means found himfelf hemmed in between two powerful enemies，Eimon be－
luw，and Eleazar above．He defended himfelf，how＂－ ever，againft them both with great refolution；and when the city was invelted by the Romans，＇laving pretended to come to an agreement with his rivals， he found means totaliy to cut off or force Eleazar＇s men to fubmit to him，fo that the factions were again redu－ ced to two．

The Romans，in the year $7^{2}$ ，began to advance to－The ${ }^{37}$ Ro－ wards the capital．In their way they deltroyed many mant ad－ thoufands，wafting the country as they went along；vance to and in the year 73 arrived before the walls of Jernta－ lem，under Titus afterwards empercr．As he was a man of an cxceedingly merciful difpofition，and greatly defired to fpare the city，he immediately fent offers of peace；but thefe were rejected with contempt，and he limfelf put in great danger of his life，fo that he re－ folved to begin the fiege in form．In the mean time， Simon and John renewed their hoftilities with greater fury than ever．John now held the whole reniple， fome of the cut－parts of it，and the valley of Cedron． Sirmon had the whole city to range in；in fome parts of which John had made fuch devaftations，that they ferved them for a field of battle，from which they fallied unanimonfly againft the common enemy when－ ever occalion ferved；after which they returned to their ufual hoftilities，turning their arms againf each other，as if they had fworn to make their ruin more eafy to the Romans．Thefe drew fill nearer to the walls，having with great labour and pains levelled all the ground between Scopas and them，by pulling down all the houles and hedacs，cutting down the trecs， and even clearing the rocks that food in their way， from Scopas to the tomb of Herod，and Bethara or the pool of ferpents；in which work fo many hands were employed，that they finithed it in four days．

Whilf this was doing，Titus fent the befieged fome offers ${ }^{3 \text { s }}$ offers of peace；and Jofephus was pitched upon to be peace re－ the meffenger of them ：but they were rejected with jected． indignation．He fent a fecond time Nicanor and Jo－ fephus with frefh offers，and the former received a wound in his houlder；upon which Titus refolved to begin the affault in good earneft，and ordered his men to raze the fuburbs，cut down all the trees，and ufe the materials to raife platforms againft the wall．Every thing was now carried on with invincible ardour ；the The frege Romans began to play their engines againt the city carried on with all their might．The Jews had likewife their with vi－ machines upon the walls，which they plied with un－gour． common fury：they had taken them lately from Ce － ftius：but were fo ignorant in their ufe，that they did little execution with them，till they were better in－ Atructed by fome Roman deferters：till then，their chief fuccels was rather owing to their frequent fallies； but the Roman legions，who had all their towers and machines before them，made terrible havock．The leaft flones they threw were near 100 weight；and thefe they could throw the length of a quarter of a mile againft the city，and with fuch a force，that they could do mifchief on thofe that flood at fome ditance be－ hind them．Titus had reared three towers 50 cubjts high；one of which happening to fall in the middle of the night，greatly alarmed the Ruman camp，who im－ mediately ran to arms at the noife of it；but C＂itus， upon knowing the caufe，difmified then，and cauled

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jers. it to be fict up again. Thefe toserc, being piated with iron, the Jews tried in vain to fet fire to them, but were at length forced to retirc out of the reach of their thot : by which the battering-rams were now at fill liberty io play againft the wall. A breach was foon made in it, at which the Romans entered: and the Jews, abandoming this laft inclofure, retired behind the next. This happened about the 28 th of April, a fortnight after the beginning of the fiege.

John defended the temple and the caftle of Antonia, and Simon the reft of the city. Titus marched clofe to the fecond wall, and plied his battering-rams fo furioully, that one of the towers, which lorked towards the north, gave a prodigious thake. The men who were in it, made a fignal to the Romans, as if they would furrender; and, at the fame time, fent Si mon word to be ready to give them a rrarm reception. Titus, having difcovered their fratagem, plied his work more furioully, whilat the Jews that were in the tower fer it on fire, and flung themfelves into the flamec. The tower being fallen, gave them an entrance into the fecond inclofure, five days after gaining the firf; and Tius, who was bent on faving the city, would not fuffer any part of the wall or Itreets to be demolifhed; which left the breach and lanes fo marro:r, that when his men were furioully repulled by Simon, they had not room enough to make a quick retreat, fo that there was a number of them killed in it. This overfight was quickly rectified; and the attack renewed with fuch vizour, that the place was carried four days after their firlt repulfe.

The famine, raging in a terrible manner in the city, was foon followed by a peltilence; and as thefe two dreadful judgments increaled, fo di? the rage of the factions, who, by their inteltine feuds, had deitroyed fuch quantities of provihon, that they were forced to prey upon the people with the moft unheard-of cruelty. They forced their houfes; and, if they found any victuals in them, they butchered them for not apprifing them of it; and, if they found nothing but bare walls, which was almoit everywhere the cafe, they put them to the moft fevere cortures, under preterce that ihey had fome orovifion concealed. "I hould (fays Jofephus) undertake an impolthle tan, were I to enter into a detail of all the crueltics of thofe impious wretches; it will be fuficient to fay, that I do not think, that fince the creation any cito every fuffered fuch dreadful calamities, or abounded with men fo fertile in all kinds of wickednefs"
'Titus, who knew their miferable condition, and was fiill willing to fpare them, gave them four days to cool ; during which he caufed his army to be muftered, and provifions to be diftributed to them in fight of the Jerrs, who flocked upon the walls to fee it. Jofephus was fent to Cpeak to them afrefl, and to exhort them not to run themfelves into an inevitable ruin by obftinately perfifing in the defence of a place which could hoid out but a very little while, and which the Romans looked upon already as their own. But this ftubhom people, after many bitter invectives, began to dart their arrows at him; at which, not at all difcouraged, he went on with greater vehemence: but all the effect it wrought on them was, that it prevailed on great numbers to fleal asay privately to the

Romans, whilit the teft became only the move defjerate and refolute to hold out to the lat, in finte c! 1 i tus's merciful ofiers.
'lo haften therefore their dettined ruin, he caufed the city to be furruunded with a Atrong wall, to prevent either their receiving anj, fuccours or provition from abroad, or their efeaping his refentment by Hight. This wall, which was near 40 fladia or five miles in circuit, was yet carried on with fuch fpeed, and by fo many hands, that it was finihed in three days; by which one may guefs at the ardour of the befiegers to make themfelves maters of the city.

There was now nuthing to be leen through the freets of Jerufalem but heaps of dead bodies rotting abore ground, walking fkeletons, and dying wretches. As many as were caught by the Romans in their fallies, Titus caufed to be facrificed in fight of the town, to frike terror among the rell: but the zealots gave it out, that they were thore who fled to hin for protection; which when Titus underfood, he fent a priloner with his hands cut off to undeccive, and afure them, that he fpared all that voluntarily came over to him; which encouraged great numbers to accept his offers, though the avenues were clofly guarded by the factious, who put all to death who were caught going on that errand. A greater mifchief than that was, that even thore who efcaped fafe to the Roman camp were miferably butchered by the fodiers, from a notion whit?: thefe had taken that they had fwallowed great quantities of gold; fo that two thoufand of them were ripped up in one night, to come at their fuppofed treafure. When 'Titus was apprifed of this barbarity, he would have condemned all thofe butchering wretches to death; but they proved fo numerous, that he was forced to fpare them, and contented himfelf with ferding a proclamation through his camp, that as many as thould be fufpected thenceforward of that hor. rid villan: fhould be put to immediate death: yet did not this deter many of them from it, only they did it anore privately than before; fo greedy :were they of that bewitching metal. All this while the defecticn increafed ftill more through the irhumanity of the fac. tion within, who made the miferies and dying groans of their flarving brethren the fubject of their cruel mirth, and carricd their barbarity even to the theathing of their fwords in frort in thofe poor wetches, under pretence of trying their fharpne?s.

When they found therefore that neither their guards nor feverities could prevent the people's fitght, they had recourfe to another Ilratagem equally impious and cnecl : which was, to hire a pack of vile pretenders to prophecy, to go about and encourage the defpairing remains of the people to eapcct a fpeedy and miraculous deliverance; and this impolture proved a greate: expedient with that infatuaied nation than their other precautions.

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Nothing could be more dreadful than the fimifhed Niterable condition to which they "cre now reduced. The pour, cou.d. on hasing nothirg to truif to but the Roman's mercy or ${ }^{\text {ot the Jews }}$ a fpecdy death, ran all hazards to get out of the city ; and if in their light, and wandering out for herbs or any other fultenance, they fell into the hands of any of T'itus's parties fent abnut to guard the avenues, they were ummercifully fcourged, and crucified if they made the leaft refiftance. The rich within the walls were

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1.w. nuli ......... tha agh in the mall private maner, to give half, of all they trere worth, for a meature of wheat, and zhe m!dilisg fort for one of barley. This they were forced so couser into fune plivate place in their lowles, and to feed upon it as it wes, without daring to pound or grimd it, much lefs tu buil or bake it, leit the noite or fene! !hould draw the rapacious zealots io cone and tear it from them. N゙at that thefe were redineel to any: real want of provitions, but they has a double cnd in this barbarous plunder; to wit, the far* w...at they cruelly inled all ulelefs perlons, and the keeping their own dores in referve. It was upon this fad and pirchit.g junctare, that an unhappy mother was reduced to the extremity of butchering and cating her own child.

When tisis news was fread through the city, the horror and confternation were as univerfal as they were incxpreathle. It was then that they began iu think themelves fowfen by the Divine Providence, and to expect rhe moft terrible effeß, of his anger arainit the poor semains of their nation; infomuch that they began to envy thole that had perifhed before them, and cataftophe Their fears were but too juft: fence Titus, at the very firt hearing of this inhaman deed, fware the total extirpation of city and people, "s Sinace (faid he) they have fo often refufed my proffers of pardon, and have preferred war to peace, rebellion to obedience, and famine, fucis a dreadful one efpecially, to plenty, I am determined to lury that accurled metropolis under its ruins, that the fun may never thoot lis beams on a city where the methers feed on the fleih of their children, and the fathers, no lefs guilty than they, choofe to drive them to fuch extrenities, rather then lay down their arms."

The dreadful action happened about the end of fuly, by which time the Romans, having purfued their attacks with frell vigour, made themfelves matters of the fortrefs Autonia; which obliged the Jerws to fe: fire to thofe flately galleries which joined it to the temple, lel? they thould atiord an ealy paffage to the befiegers into this laft. About the fame time Titus, wi much diticulty, got matetials for railing new nocunds and terfaces, in order to hatten the fiege, and fave, if pothbie. tle fad remains of that ance glorious flructure; bu: his pity proved fil! worle and worfe beltowid on thole obitnate wrecthes, who only became the more furious and defperate by it. Titus at lengils caufed fire to be fet 10 the gates, after having had a very bloudy encounter, in which lis men were repulfed "itis lats. The Jews were fo tesvilied at it, that they furered then.lelves to be devourcd by the thames, without atteraving cither to extinguifh them or 'ave themflyes, All this while Josenhe oid not ceace erhorting the infamated people to firrender, to sersefent to the?n the dreadful confequences of an oty flimate refifance, and to alluse them that it was out of mere compation to them that be thin inaarded his own lifes $t o$ fave theirs: he receive! one way dich a wound in his head by a tone from the battlements, as laid him for dead out the ground, 'Tle Jews fallied ous immodiately, to have feized on his body: but the
that of John, having plundered rich and poor of istl they had, fell alfo on the treafury of the temple, whence John took a great quantity of gohen u:ctsfils, together with thofe magnificent gifts which hat Leen prefented to that facred place by the Jeni!h kings, by Augunns, Jivia, and many other foreign priacto, and melsed them ail to his own aic. The repuitorie. of the facted oil which was to maintain the bimps, and of the wine which was referved to accompany the ulua? facrifices, were likewife feized nipon, and turned ines common ufe; and the laff of zlitis to fuch excefs, an to make himfelf and his party drunk with it. All this while, nu: on!ly the zealots, but may of the people, were ftill under fuch an infatuation, that though the fortrels Antonia was lolt, and nothins left but the temp'e, which the Romans were preparing to bat te: down, yet they cond not perfuate themelves that God would fusier that holy flace to be taken by heathens, and were fill! expecting iome fudjen and mir so culous deliverance. Even that vile monfter dohn, who commanded there, either feemed confident of it, or elle endearoured to make them think him fo. Fur, when Jofephus was fent for the laft time to upleraid his obstinately expoling that facred building, and the niferable remains of Ged's people, to fudden and fure deftruction, he only anfwered him with the bittere!? invectives; adding, that he was defending the Sord's rineyard, which he was fure could no: be tater by any human force. Jolephus in vain reminded !:im of the many ways by which he had polluted both city and temple; and in particular of the feas of blood which he caufed to be thed in both thofe facred places, and which, he aflured him from the old prophecies, were a certain fign and forerunner of their feeedy furrender and delluction. John remained as intiexible as if all the prophets bad antured him of a deliverance; till at length Titus, forefceing the incvitable ruin of that Atately edifice, which be was fill extremely defirous to fave, vouchfafed evers himfelf to fpeak to them, and to perfuade them io furrender. But the factious, looking upon this condefecnfion as the efo ferts of 10 fear rather than generofty, only grew the more furious upon it, and forced him at laft to come to thufe extremities which he had hitherto endeavour ed to avoid. 'That his army, which was to attach the temple, might have the freer paffiage towards it through the caltle Antonia, he caufed a confiderable part of the wall to be pulled down and levelled; which proved fo very trong, that it took him up feven whole days, by which time they were far advanced is the monih of July.

It was on the rgth day of that month, as all Jofephus's copies have it, that the daily facrifice ceafed for The daince in the firf time fince its reftoration by the brave judasterrupred. Naccabens, there being no proper perfon left in the temple to offer it up. Fitus caufed the factious to be ieverely upbraided for is; exhorted John to fet up whom tre would to perform that ulfice, rather than fuffer the fervice of God to be fet atide; and then challenges! him and his party to come out of the temple, and figlte on a more proper ground, and thereby fave that ficred edince from the fury of the Roman troops. Whern nothing could nevail on them, they began to fet lire again to the gallery which formed a commumientinn between the temple and the cattle Autonia. The

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Jcws had already burnt about 20 cubits of it in length; but this fecond blaze, which was likewife encouraged by the befieged, confumed about it more; after which, they beat down what remained itanding. On the $27^{\text {th }}$ of July, the Jews, having filled part of the welfern portico with combultible matter, made a kind of thight; upon which, fome of the forwardeft of the Romans having fcaled up to the top, the Jews fet fire to it, which Hlamed with fuch fudden fury, that many of the former were confumed in it, and the reft, venturing to jump down from the battlements, were, all but one, crufhed to death.

On the very next day, Titus having fet fire to the north gallery, which inclofed the outer court of the temple, from Fort Antonia to the valley of Cedron, got an ealy admittance into it, and forced the belieged into that of the priefts. He tried in wain fix days to bat ter down one of the galleries of that precinct with an helepolis: he was fored to mount his battering-rams on the terrace, which was raifed by this time ; and yet the ftrength of this wall was fuch, that it eluded the force of thefe alfo, though others of his troops were bufy in fapping it. When they found that neither rams nor fapping could gain ground, they bethought themfelves of fcaling; but were vigoroufly repulfed in the attempt, with the lofs of fome flandards, and a number of men. When Titus therefore found that his defire of faving that building was like to coft fo many lives, he fet fire to the gates, which, being plated with filver, burnt all that night, whilft the metal dropt down in the melting. The flame foon communicated i: $\{\mathrm{elf}$ to the porticocs and galleries; which the befieged beheld without offering to itop it, but contented themfelves with fending whole volleys of impotent curfes againf the Romans. This was done on the eighth of Augult ; and, on the next day. Titus, having given orders to extinguifh the fire, called a council, to determine whether the remainder of the temple thould be faved or demolifhed. That general was ftill for thie former, and mof of the refl declared for the latter; alleging, that it was no longer a temple, but a fcene of war and llaughter, and that the Jews would neerer be at reft as long as any part of it was left flanding: but when they found Titus ftiffly bent on freferving fo noble an edifice, acaintt which he told them he could bave no quarrel, they all came over to his mind. The next day, Augult the soth, was therefore determined for a general affault: and the night before the Jews made two defperate fallies on the Romans; in the laft of which, thefe, being timely fuecoured by Titus, beat them back into their inclofure.

But whether this laft Jewih effort cxafoerated the befiegers, or, which is more likely, as Jofephus thinks, fufted by the hand ot Providence, one of the Roman foldiers, of his own accord, took up a blazing firebrand, and, getting con his comiade's fhoulders, threw it into one of the apartments that furrounded the fancthary, through a windors. This immediately fet the whole north fide in a flame up to the third fory, on the farne fatal day and month ial which it had been formerly burnt by Nebucladnezzar. Tïtus, who was gone to rell himfelf a white in this pavilio:, was awaked at the noife, and ran inmediately to give orders to have the fire extinguine?. He called, prayed, threat-
Yol. XI. Pare 1.
ened, and even caned his men, but in vain ; the confufion was fo great, and the foldiers fo obtinately bent upon deftroying all that was left, that he was neithor heard nor minded. Thole that nocked thither from the camp, inftead of obeying his orders, were Eu!y, either in killing the Jews, or in increafing the flames. When Titus obferved that all his endeavours were vain, he entered into the fanctuary and the moft holy place, in which he found fill fuch fumptuous uteizfils and other riches as even exceeded all that hat been told him of it. Out of the former he faved the golden candleftick, the table of thew-bread, the altar of perfumes, all of pure gold, and the book or volume of the law, wrapped up in a rich gold tiflue : but in the latter he found no utenfils, becaufe, in all probability, they had not made a Frelh ark fince t'lat of Solomon had been loft. Upon his coming out of that facred place, fome other foldiers fet fire to it, and obliged thofe that had itaid behind to come out ; they alt fell foul on the plunder of it, tearing cren the gold plating off the gates and timber work, and carried off all the conlly utenfils, robes, \&c. they found, informuch that there was not one of thern who did not enrich himfelf by it.

An horrid maffacre followed foon after, in which a great many thoufands perihed; fome by the flames, others by the fall from the battlements, and a greater number by the enemy's fword, which deftroyed all it met with, without diftinction of age, fex, or quality. Among them were upwards of 6000 perfons who had been feduced thither by a falfe prophet, who promifed them that they flould find a fpeedy and miraculous relicf there on that very day. Some of them remained five whole days on the top of the walls, and afterwards threw themfelves on the general's mercy; but were anfwered that they had outfaid the time, and were led to execution. The Romans carried their fury to the burning of all the treafure-houfes of the place, though they were full of the riclieft furniture, plate, veftments, and other things of value, which had been laid up in thole places for fecurity. In a word, they did not ceafe burning and butchering, till they had defroyed all, except two of the templegates, and that part of the court which was deitined for the women.

In the mean time the feditious made fuch a vigo. rous pulh, that they efcaped the fury of the Romans, at lealt for the prefent, and retired into the ciry. But here they found all the avenues fo well guarded, that there was no pofibility left for them to get out; which obliged them to fecure themfelves as well as they could on the fouth fide of it, from whence Simon, and John of Gifchala, fent to defire a parley with Titus. They were anfwcred, that though they had been the caufe of all this bloodfled and ruin, jet they floould have their lives fpared, if they laid domn their arms and furrendered themfelses prifoners. To this they replied, that they had engaged themfelves, by the moft fulemn oaths, never to furrender; and therefore, only begged leave to retire into the mountains with their wives and children: which infolence fo exafpe. rated the Roman general, that he caufed an herald io bid them fland to their defence; for that not one of them thould be fared, fince iliey load reje:ted his latt offers of ardon. Immerliaiely after this, he aban-

ITwe doned the city to the fury of the foldiers, wiso fell forthwith on plundering, fetting fire crerywhere, and murderisg ail that fell into their havds; whilf the fectious, who vere left, went and fortified themflues in the royn? palace, where they hilled 8000 lews who had taken refuge there.

In the mean time, great preparations were making for a riggotous attack on the upper city, efpecially on the roval !alace; and this took them up from the 2ath of Augcen to the 7 th of September, during whirh time sreat lumbers came and made their fubmirtion to Titue. The warlike eagines then played fo furioufly on the factiou*, that they were taken with a fudden panic; and, inflead of fleeing to the towers of Hippicor, Plaaacl, or Mariamne, which were yet untaken, and foftrong that nothing but famine could have reduced them, they ran like madmen towards Si loah, with a defign to have attecked the wall of circumvaliation, and to have efcaped out of the city; but, bein- there repulfed, they were forced to go and lide themfelyes in the fublic liaks and common fewers, fume one way and fome another. All whom the Fomners could find were put to the fword, and the ciiy was fet on fre. 'This was on the eighth of Sepsember, when the city was taken and entered by Titus. He weuld have put an end to the maflacre; but his men hilled all, except the moft vigorows, rhom thes fhut up in the porch of the women jult mentioncd. Fronto, who had the care of them, referved the youngeft and moft beautiful for Titus's triumph; and fent all that were above feventeen years of age into Egyft, to be employed in fome public works there; and a great number of others were fent into feveral cities of Syria, and other prowinces, to be expofed on the public theatre, to exhibit fights, or be deroured by wild beafts. The number of thofe prifoners amounted to 97,000 , befides about II,000 more, who were either ftarved through neglect, or ftarved themfelves through fullennefs and defpair.- The whole number of Jews who perifhed in this war is eomputed at upwards of $1,400,000$.

Befides thefe, however, a raft number perifhed in caves, woods, wilderneffes, common-fewers, \&c. of uhom no computation could be made. Whilit the foldiers were ftill bufy in burning the semains of the city, and vifiting all the hiding-places, where they killed numbers of poor creatures who had endearoured to evade their cruelty, the tro grand rebels Simon and John were found, and referved for the triumph of the conqueror. lohn, being pinched with hunger, foon came out ; and having begged his life, obtained it; but rras condemned to perpetual imprifonment. Simon, whofe retreat had been better ftored, held out till the end of OStober. The two chiefs, with 700 of the handfomeft Jewith captives, were made to attend the triumphal chariot; after which Simon was dragged through the ftreets with a rope about his neck, feverely fcourged, and then put to death; and John was fent into perpetual imprifonment.- Ihree caftes still remainéd untaken, namely, Herodion, Ma-

מefperete er.d of the gar-iton of Maltada. cheror, and Maffada. The two former capitulated; but NIaffada held out. The place was exceedingly frong both by nature and art, well fored with all kinds of prowifions, and defended by a numerous gar-
rifon of zeaiors, at the head of whom was one Eleazar, the grandion of Judas Gaulonites, formerly mentioned. 'The koman general having in rain tried his engines and batterins-rams againt it, bethought himfelf of furrounding it with a high and firong wall, and then ordered the gates to be fet on fire. The wind puthed the flames fo fiercely againt the Jews, that Eleazar in defpair perfuaded them firt to hill their wives and claidren, and then to clicole ten men by lot, who frould kill all the reft; and iat?ly one out of the furviving ten to difpatch them and hinfelf; only this latt man was ordered to fot fire to the place be. fore he put an end to his own life. All this was according!y done; and on the morrow, when the Remans were preparing to fcale the walls, they were greatly furprifed neither to fee nor hear any thing move. On this they made fuch an hideous outcry, that two women, who had concealed themfelves in an arpueduct, came forth and acquainted them with the defperate cataltrophe of the befieged.

Thus ended the Jewith nation and worftip; no: have they ever fince been able to regain the imalleft footing in the country of Judea, nor indeed in any otho thon of or of the globe where they are not to be found. They continue their vain expectations of a NIEfiah to deliver them from the low eltate into which they are fallen; and, notwithftanding their ropeated difappointments, there are few who can ever be perfuaded to embrace Chriltianity. Their ceremonies and religions worlhip ought to be taken from the law of Mofes; but they have added a multitude of abfurdities not worth the inquiring after. In many countries, and in different ages, they have been terribly mariacred, and in general have been better treated by the Mahometans and Pagans than by Chriftians. Since the reviral of arts and learning, however, ther have felt the benefir of that increafe of humanity which has diffufed itfelf almoft over the glove. It is faid, that in this country the life of a Jew was formerly at the difpofal of the chief lord where he lived, and likewife all his goods. So ftrong alfo were popular prejudices and fufpicions againft them, that in the year 1348 , a fatal endemic diftemper raging in a great part of Europe, it was faid that they had poifoned the fprings and rells; in confequence of which a million and a halt of them were cruelly maflacred. In 1492 , half a million of them were driven out of Spain, and 150,000 from Portugal. Edward I. did the fame. In fhort, they were everywhere perfecuted, oppreifed, and mof rigorouily treated.

In this enlightened period a more generous fyntem is followed. France has allowed them the rights of eitizens, which induces numbers of the mort wealthy Jews to fix their refidence in that country. Poland granted them very great privileges and immunities; England, Holland, and Prufia tolerate and protect them; and the emperor has revoked fome refrictions, for which an edict was pafied : Spain, Portugal, and fome of the Italian fates, are ftill, however, it is faid, averfe to their dwelling among them.

JEZII)ES, among the Mahometans; a term of $\sqrt[1]{ }$ milar import with heretics among Chritians.

The Jezides are a numerons fect inhabiting Turkey

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Jeziles and Perfia, fo called from their head Jezid, an AraIglar.
bian prince, who flew the fons of Ali, Mahomet's father in law ; for which reafon he is reckoned a parri-
cite, and his followers heretics. There are about 20,000 Jezides in Turkey and Perfia; who are of two forts, black and white. The white are clad like Turks: and diflinguilhed only by their חhirts, which are not liit at the neck like thofe of others, but have only a round hole to thrult their heads through. This is in nuemory of a golden ring, or circle of light, which defended from heaven upon the neck of their cheq, the head of their religion, after his undergoing a fait of forty days. The black Jezides, though married, are the monks or religious of the order; and thefe are called Fakirs.

The 'Turks exact exceffive taxes from the Jezides, who hate the Turks as their mortal enemies; and when, in their wrath, they curie any creature, they call it mufultan: but they are great lovers of the Chritians, being more fond of Jefus Chrit than of Mahomet, and are never circumcifed hut when they are forced to it. They are extremely ignorant, and believe both the bible and the koran without reading either of them: they make vors and pilgrimages, but have no places of religious worthip.

All the adoration they pay to God confilts of fome fongs in honour of Jefus Chrift, the virgin, Mofes, and fometimes Manomet; and it is a principal point of their religion never to feak ill of the devil, lelt he thould refent the injury, if ever he flould come to be in favour with God again, which they think poffible; whenever they fpeak of him, they call him the augel Peacock. They bury their dead in the firft place they come at, rejoicing as at a feftival, and celebrating the entry of the deceafed into heaven. They go in companies like the Arabians, and change their habitations every 15 days. When they get wine, they drink it to excefs; and it is faid, that they fometimes do this with a religious purpofe, calling it the blood of Cbritt. They buy their wives; and the market-price is 200 crowns for all women, handiome or not, without difo tinction.

JEZRAEI, or Jezreel, a town in the north of Samaria, towards Mount Carmel, where food a palace of the kings of Ifrael, (I Kirgs xxi. 18). On the borders of Galilee (Jofhua xix.) faid to be one of the towns of Iflachar. -The valley of Jezreel (Judges vi. 17.) was fituated to the north of the town, running from weft to ealt for ten miles, between two mountains; the one to the north, commonily called Hermon, near Mount Tabor; the other Gilloa: in breadth two miles.

IF, an inland of France, in Provence, and the molt eaftern of the three before the harbour of Marfeilles. It is very well fortified, and its port one of the beft in the Mediterranean.

IGIS, a town of the country of the Grifons, in Caddea, with a magnificent caftle, in which is a cabithet of curiofities, and a handfome library; 23 miles fouth-weft of Choira, and 23 fouth of Glaris. E. Long. 9. o. N. Lat. 49. 10.

IGLAW, a confiderable and populous towa of Germany, in Moravia, where they have a manufactory of good cloth, and excellent beer. It is feated on the
river $1 \mathrm{gla}, 40$ miles weft of Brin, and 62 fuuthe ea of Prague. E. Long. 15.42, N. Lat. 47.8.

IGNATIA, a genus of plants, belonging to the pentandria chafs. Sec Borasy Inder.

IGNATIUS Loyol., (canonized), the founder of the well-knotvin order of the IEseris, was born at the caftle of Loyola, in Bifcay, ${ }^{1491}$; and became firt page to Ferdinand V. King of Spain, and then an officer in his army. In thie latt capacity, he fignalized












 to Pope Paul III, who made many objeations to them, but at laft in 1540 confirmed the inflitution. The founder died in 1555 , and left his difciples two famous books; 1. Spiritual exercifes; 2. Conflitutions or rules of the order. Bat it mult be remembered, that though thefe arowed inititutes contain many privileges obnoxious to the welfare of fociety, the moft diabolical are contained in the private rules, intitled Monita fecreta, which were not difcovered till towards the clofe ot the laft century; and mo? writers attribute thefe, and exen the Contitutions, to Laynez, the fecond general of the order.

Igvatius, St, furnamed Theophrafus, onc of the apoitolical fathers of the church, was born in Sysra, and educated under the apoftle and evangeliit St John, and intimately acquainted with fome other of the apoftles, efpecially St Peter and St Paul. Being fullinatructed in the doctrines of Chriltianity, he was, for his eminent parts and piety, ordained by St John, and confirmed about the year 67 bifhop of Antioch, by thefe two apofles, who firt planted Chrifianity in that city, where the difciples alfo vere firf called Chrifians. Antioch was then not only the metropolis of Syriz, but a city the moff famous and renowned of any in the eaft, and the ancient feat of the Roman emperors, as well as of the viceroys and governors. In this important feat he continued to fit fomewhat above 40 yeare, both an honour and fafeguard of the Chrifian religion, till the year 107, when Trajan the emperor, flumed with a vifory which he had lately obtained over the Scythians and Daci, about the ninth year of his reign, came to Antioch to make preparations for a war againft the Parthians and Armenians. He entered the city with the pomp and folemnities of a triumph'; and, as his firt carc ufually was about the concernments of religion, he began prefently to inquire in:o that affair. Chriffianity had by this time made fuch a progrefs, that the Romans grew jealous and unealy at it. This prince, therefore, had aiready commenced a perfecution againft the Chriflians in other parts of the empire, which he now refolved to cargy on here. However, as he was naturally of a

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1-..t:.. mild difpofition, though he ordered the laws to be put in force againt them if convicted, yet he fo:bade them io be fought after.

In this flate of affairs, Ignativs, thinking it more prudent to go kimfelf than ftay to be fent for, of his own accord prefented himfelf to the emperor; and, it is faid, there paffed a lorg and particular difcourfe beween them, wherein the emperor exprefling a furprife \}.ow he dared to tranfgrefs the laws, the bifhop took the opportunity to affert his own innocency, and to explain and vindicate his faith and freedom. The ifTue of this was, that he was caft into prifon, and this fentence paffed upon him, That, being incurably overrun with fuperftition, he fhould be carried bound by foldiers to Ronie, and there thrown as a prey to wild beafts.

He was firft conducted to Seleucia, a port of Syria, at about 16 miles diftance, the place were Paul and Barnabas fet fail for Cyprus. Arriving at Smyrna in Ionia, he went to vifit Polycarp bifhop of that place, and was himfelf vifited by the clergy of the Afian churches round the country. In return for that kindnefs, he wroie letters to feveral churches, as the Ephefians, Magneinans, and Trallians, befides the Romans, for their inftruction and eftablifhment in the faith; one of theefe was addreffed to the Chrillians at Rome, to acquaint them with his prefent flate, and palfionate defire not to be hindered in the courle of martyrdom which he was now haftening to accomplith.

His guard, a little impatient of their ftay, fet fail with him for Troas, a noted city of the leffer Phrygia, not far from the ruins of old Troy; where, at his arrival, he was much refrefted with the news he received of the perfecution ceafing in the church of Antioch: hither alfo feveral churches fent their meffengers to pay their refpects to him; and hence too he difpatched two epiftes, one to the church of Philadelphia, and the other to that of Smyrna; and, together with this laft, as Eu\{ebius relates, he wrote privately to Polycarp, recommending to him the case and infpection of the church of Antioch.

From Troas they failed to Neapolis, a maritime town in Macedonia; thence to Philippi, a Roman colony, where they were entertained with all imaginable kindnefs and courtefy, and conslucted forwards on their jourrey, paffing on foot through Macedonia and Epirus, till they came to Epidamnium, a city of Dalmatia: where again taking thipping, they failed through the Adriatic, and arrived at Rhegium, a port-town in Italy; directing their courfe thence through the Tyrrhenian fea to Puteeli, whence Ignatius defired to proceed by land, ambitious to trace the fame way by which St Paul went to Rome: but this wini was not complied with; and, after a ftay of 2.4 hours, a profperous wind quickly carried them to the Roman port, the great harbour and fation for their navy, built near Oftia, at the mouth of the 'Tyber, about 16 miles from Rome; whither the martyr longed to come, as much defirous to be at the end of his racc, as his kecpers, weary of their voyage, were to be at the end of their journey,
'Ihe Chriftians at Rome, daily expecting his arriva!, were come ont to mect and entertain him, and accordingly received him with a misture of joy and lorrow;
but when fome of them intimated, that pofibly the populace might be taken off from defiring his death, he exprefled a pious indignation, intreating them to caft no rubs in his way, nor do any thing that might hinder him, now he was hallening to his crown. 'There are many fuch expreflions as this in his epitle to the Romans, which plainly fhow that he was highly ambitious of the crown of martyrdom. Yet it dees not appear that he raflily fought or provoked danger. A. mong other expreffions of his ardour for fuffering, he faid, that the wild beafts had feared and refured to touch fome that liad been thrown to them, which he hoped would not happen to him. Being conducted to Rome, he was prefented to the præfect, and the empcror's letters probably delivered concerning him. The interval before his martyrdom was fpent in prayers for the peace and profperity of the church. That his punifhment might be the more pompous and public, one of their folemn fettivals, the time of their Saturnalia, and that part of it when they celebrated their Sigillaria, was pitched on for his execution ; at which time it was their cullom to entertain the people with the bloody conflicts of gladiators, and the hunting and fighting with wild bealts. Accordingly, on the $13^{\text {th }}$ kal. January, i. e. December 20. he was brought out into the amphitheatre, and the lions being let loofe upon him, quickly difpatched their meal, learing nothing but a few of the hardeft of his bones. Thefe remains were gathered up by two deacons who had been the companions of his journey; and being tranf. ported to Antioch, were interred in the cemetery, without the gate that leads to Daphne; whence, by the command of the emperor Theodolius, they were removed with great pomp and folemnity to the Tycheon, a temple within the city, dedicated to the public genitis of it, but norv confecrated to the memory of the martyr.

St Ignatius flands at the head of thofe Antinicene fathers, who have occafionally delivered their opinions in defence of the true divinity of Chrift, whom he calls the Son of God, and his eternal world. He is alfo reckoned the great champion of the doctrine of the epifcopal order, as diftinct and fuperior to that of prieft and deacon. And one, the moft important, ule of his writings refpects the authenticity of the Holy Scriptures, which he frequently alludes to, in the very expreffions as they fand at this day.-Archbiftop Uthcr's edition of his works, printed in 1647 , is thought the beft: yet there is a frefher edition extant at Amfterdam, where, befide the beft notes, there are the differtations of Uther and Pearfon.

St Ignatius's Bean, the fruit of a plant. See Ignatia, Botany Index.

IGNIS-fatuus, a kind of light, fuppofed to be dif an electric nature, appearing frequently in mines, marlhy places, and near flagnating waters. It was formerly thought, and is tlill by the fuperititious believed, to have fomethi:s ominous in its nature, and to prefage death and other misfortunes. There have been inftances of people being decoyed by thefe lights into marfly places, where they have perifhed; whence the names of Isnis-fa!uus, Wi/h-with-a-wifp, and Jack-w:ith-ambiorn, as if this appearance was an ewil fpirit which tool delight in doing mifchief
ignatius
Innis-

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nnition of that kind. For a further account of the nature and properties of the ignis-fatuus, fee Metropology Inde...

IGNITION, properly fignifies the fetting fire to any fubilance; the fenfe is fometimes limited to that lind of burning which is not accompanied with tlame, fuch as that of charcoal, cinders, metals, flones, and other lolid fubflances. The effeets of ignition, according to the old chemical doctrine, are firlt to diflipate what is called the phlogiffon of the ignited fubftance, after which it is reduced to ahhes. Vitrification next follows; and lafty, the fubflance is totally dillipated in vapour. All thefe effects, however, depend on thy prelence of the air; for in vacio the phlogifon of any fubllance cannot be diflipated. Neither can a bode which is totally deltitute of phlogifton be ignited in fuch a manner as thofe which are not deprived of it : for as long as the phlogitton remains, the heat is kept up in the body by the action of the esternal air upon it; but when the phlogition is totally gone, the air a'ways deitroys, inflead of augmenting, the heat. But for the explanation of the phenomena of ignition, according to the rie:rs of modern chemifty, fce Igmition, Chrmistry Index.

IGNOBILES, amongft the Romans, was the defignation of fuch perfons as had no right of uling pictures and ftatues. See Yos Imaginis.

IGNOMINIA, a fpecies of punifhment amongh the Romans, whereby the officnder fuffered public thame, either by virtue of the pretor's edict, or by order of the cenfor. This punifiment, befides the fcandal, deprived the party of the privilege of bearing any offices, and almoft all other liberties of a Roman citizen.

IGNORAMUS, in Law, is a word properly ufcd by the grand inqueft cmpanuelled in the inquifition of csufes crininal and public, and written upon the bill whereby any crime is offered to their confideration, when, as they millike their evidence as defective or too weak to make good the pretentment ; the effect of which word fo written is, that all farther inquiry upon that party for that fault is thereby ftopped, and he - delisered without farther anfuer. It hath a refernblance with that cuflom of the ancient Romans, where the judges, when they abfolved a perfon accufed, did write $A$. upon a little table provided for that purpole, i. e. abfolvimus; if they judged him guilty, they wrote C. i. c. condemnamus; if they found the caufe dilificult and doubtful, they wrote N. L. i. e. nor liquet.

IGNORANCE, the privation or abfence of knowledge. The caufes of ignorance, according to Locke, are chiefly thefe three. 1. Want of ideas. 2. Want of a difcoverable connection between the ideas we have. 3. Warit of tracing and examining our ideas. See Metaphrsics.
leworasce, in a more particular fenfe, is ufed to denote illiteracy. Previous to the taking of Rome by the Gauls, fuch grofs ignorance prevailed among the Romans that few of the citizens could read or write, and the alphabet was almof unknown. During three ages there were no public fchools, but the little learning their children had was taught them by their parents; and how little that was may be partly concluded from this circumflance, that a nail was ufually driven into the wall of the temple of Fupiter Capitolinus, on the 15 th of Sep. tember, to affift the ignorance of the people in reckon-
ing the yenrs, becaufc they were unacquainted with letters or figures. The driving of the nail was afterwards converted into a religious ceremony, and performcd by the ditacor, to avert public calamities.
lonorance, or mitake, in Lau', a defect of will, whereby a perton is excufed from the guilt of a crime, when, intending to do a layful act, he does that which is unlawful. For here the deed and the will acting feparately, there is not that conjunction between thens which is necellary to form a criminal act. But this muft be an ignorance or miftake of fact, and not an error in point of law. As if a man intending to kill a thief or houfe-breaker in his own houfe, by miltake kills one of his own fanily, this is no criminal action : but if a man thinks he has a right to kill a perfon excommunicated or outlawed wherever he meets him, and does fo; this is wilful murder. For a miftake in point of law, which every perfon of difcretion not only may, but is bound and prefumed to know, is, in criminal cafes, no fort of defence. Ignorantia juris quod quifque tenetur- foire, neminent cxcufa!, is as well the maxinn of our own law as dit was of the Roman.
iguana, a fpccies of Lacerta. See Erpetology Index.

Mud Iguana, a fpecies of fifa, See Murena, Icirhyology Index.

IHOR, Joher, or Yor, a town of Afia, in Malacca, and capital of a province of the fame narae in the peninfula beyond the Ganges. It was taken by the Portuguefe in 1603, who defrojed it, and carried off the cannon; but it has fince been rebuilt, and was afterwards in poffeffion of the Dutch. E. Long. 93.55. N. Lat. I. I 5.

Jlib, the foremof fail of a hlip, being a large flayfail extended from the outer end of the bowfprit prolonged by the jib-boom, towards the fore-top matt head. See Sitl.

The jib is a fail of great command with any fidewind, but efpecially when the llaip is clofe hauled, or has the wind upon her beam; and its effort in cafing the fhip, or turning her head to lceward, is very powerful, and of great utility, particularly when the thip is working through a narrow channel.

Gib-Boom, a boom run out from the extremity of the bowfprit, parailel to its length, and ferving to extend the bottom of the jib, and the flay of the fore-top-gallant malt. This boom, which is nothing more than a continuation of the bowfirit forward, to which it may be confidered as a top-malt, is ufually attached to the bowfprit by means of two large boom-irons, or by one boom i:on, and a cap on the outer end of the bowfiri: ; or, finaliy, by the cap without and a flrong lathing within, infleat of a boom iron, which is generally the method of fecuring it in frmall mer-chant-fhips. It may therefore be drawn in upon the bowfprit as occafion requires; which is ufually practifed when the flip enters a harbour, where it might very foon be broken or carried away, by the vefels which are moored therein, or paffing by under fail.

Jibbel or Gebbel Aurey, the Mons Aurafius of the middle age, an affemblage of many very rocky mountains in Africa, in the kingdom of Algiers. Here Mr Bruce met with a race of people much fairer in the complexion than any of the nations to the fouthward of Britain: their hair was red, and their eyes blue: they

## J [ D

maintain their independence, and are of a favage difpofition, fo that our traveller found it difficult to approach them with fafety. They are called Nearcia; and each of them bas a Greek crofs in the middle between the eyes, marked with antimony. They are divided into tribes, but, unlike the other Arabs, have huts in the mountains built of mud and ftraw; and are, by our author, fuppofed to be a remmant of the Vandais. He even thinks that they may be defcended from the remainder of an army of Vandals mentioned by Procopius, which was defeated among thefe mountains. 'They live in perpetual war with the Moors, and boaf that their anceftors were Chriftians. They pay 110 taxes.

JIDDA, a town of Arabia, fituated, according to Mr Bruce, in N. Lat. $28^{\circ} 0^{\prime} 1^{\prime \prime}$, E. Long. $39^{\circ} 16^{\prime} 55^{\prime \prime}$, while others make it $21^{\circ} 28^{\prime}$, and E. Long. $39^{\circ} 22^{\prime}$. It is fituated in a very unuholefome, barren, and defert part of the country. Immediately rithout the gate to the ealtward is a defert plain filled with the kuts of the Bedoweens or country Arabs, bailt of long bundles of fpartum or bent-grafs put together like fafcines. Thefe people fupply the town with milk and bu:ter. "There is no flirring out of the town (fays Mr Bruce) even for a walk, unlefs for about half a mile on the fouth fide by the fea, where there is a number of ftinking pools of ftagnant water, which contributes to make the town very unwholefome."

From the difagreable and inconvenient fituation of this port, it is probable, that it would have been long ago abandoned, had it not been for its vicinity to Biecca, and the vaft annual influx of wealth occafioned by the India irade; which, however, does not continue, tut paffes on to Mecca, whence it is difperfed all over the eaft. The town of Jidda itfelf receives but little advantage, for all the culloms are immediately fent to the needy and rapacious Geriff of Mecca and his dependents. "The gold (fays Mr Brace) is returned in bags and boxer, and paffes on as rapidly to the thips as the goods do to the market, and leaves as little profit behind. In the mean time provifons rife to a prodigious price, and this falls upon the townfmen, while all the profit of the traffic is in the bands of ftrangers; moft of whom, after the market is over (which does not laft fix weeks). retire to Yemen and other neighbouring countries, which abound in every fort of provifion.

From this fearcity, Mr Bruce fuppofes it is that polygamy is lefs common liere than in any other part of Arabia. " Few of the inhabitants of Jidda (fays our author) can avail themfelves of the privilege grarted by Mahomet. He cannot marry more than one wife, becaufe he cannot maintain more ; and from this canfe arifes the want of people and the number of unmarried women."

The trade at Jidda is carried on in a mamer which appeared very ftrange to our traveller. "Nine Ahips (fays he) were there from India; fome of them worth, I fuppofe 200,0001 . One merchant, a Turk, living at Mecca, 30 hours journey off, where no Chritian dares go, whilf the continent is open to the Tark for cicape, offers to purchafe the cargoes of four out of thefe nine fips himfelf; another of the fame caft comes and fays he will buy none unlefs he has them all. The famples are thown, and the cargoes of the
whole nise flips are carried into the wildeit farts of Arabia by men with whom cne would not with to trult limfelf alone in the field. 'This is not all; two India brokers come into the room to fettic the price; one on the part of the India captain, the other on that of the buyer the Turk. They are neither Mahometans nor Chrilians, but have credit with both. They fit down on the carpet, and take an India hawl which they carry on their fhoulder like a napkin, and fpread it over their hands. They talk in the mean tome indifferent converfation, as if they were employed in no ferious bufinefs whatever. After about 23 minutes fpent in handling each others finger belois the thawl, the bargain is concluded, fay for nine thips, witholit one word ever having been fpoken on the fubject, or pen or ink ufed in any hape whatever. There never was one inftance of a difpute happening in thefe fales. But this is not all; the noney is yet to be faid. A private Moor, who has nothing to fupport him but his character, becomes refpomibie for the payment of thefe cargoes. This man delivers a number of coarfe hempen bags full of what is fuppofed to be money. He marks the contents upon thac bag, and puts his feal upon the flring that ties the mouth of it. This is received for what is marked upon it without any one ever having opened one of the bags; and in India it is current for the value marked upon it as long as the bag lafts.
The port of Jidda is very extenfive, and contains numberlefs fhoals, fmall ilhands, and funk rocks, with deep channels, however, between them; but in the harbour itfelf lhips may ride fecure, whatever wind blows. The only danger is in the coning in or going out; but as the pilots are very fkilful, accidents are never known to happen. The charts of this harbour, as Mr Bruce informs us, are exceedingly erroneous While he ftaid here, he was delired by Captain Thornhill to make a new chart of the harbour ; but finding that it had been undertaken by another gentleman, Captain Newland, he dropped it. He argues in the Atrongeft terms againt the old maps, which he fays san be of no ufe, but the contrary ; and he gives it as a characteriftic of the Red fea, " \{carce to have foundings in any part of the channel, and ofien on both fides; whilit ahore, foundings are hardly found a boat length from the main. To this, fays he, I will add, that there is fearce one illand on which I ever was, where the bowfirit was not over the land, while there were no foundings by a line heaved over the Atern. Of all the veifels in Jidda, only two had their $\log$-lines properly divided, and yet all were fo fond of their fuppofed accuracy, as to aver they had kept their courfe within five leagues between India and Babeimandel. Yet they had made no eftimation of the currents mithour the ftraits, nor the different very ftrong ones foon after paffing Socotra; their halfminute glafies, upon a medium, ran 57 feconds; they had made no obfervations on the tides or currents in the Red fea, either in the channel or in the inward paffage; yet there is delineated in this map a courfe of Captain Newland's, which he kept in the middle of the clannel, full of fharp angles and fhort ftretches; you would think every yard was meafured and founded!"

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\text { J1G. See MIusic, No } 252 \text {. }
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## I L A [ 159 ] I A

JILIIFREE, a town on the northern bank of the river Gambia, oppolite to Janes's inand, where the Englih had formerly a fmall port. 'The kingdom of Barra, in which it is lituated, produces abundance of the necellaries of lite; but the chief trade of the inhabitants is in falt, which they carry up the river in canocs; and, in return, bring down Indian corn, cottoncloths, elephants teeth, fmall quantities of gold duft, \&s. The number of canoes and people continally amployed in this trade, make the king of Barra, according to Mr Park, more formidable to Europeans, than any other chieflain on the river, and have encouraged him to cftablift thofe extravagunt duties, which traders of all matiotis are obliged to pay at entry, amounting alroof to 221 . o:s each veffel, great and fmall. 'Thefe duties are commonly collected in perfon by the governor of Jillifree, who is attended by a troublefome train of dependants, who have founc knowledge of the Englith language, in confequence of their intercourfe with them, and beg with fuch importunity, that traders are oftea under the neceffity of complying with their demands, in order to get rid of them. N. Lat. 13.16. W. Long. 16. 10. from Greenwich.

## JIN. See Gexir.

IKENILD STKIFT, one of the four famous ways which the Romans made in England, called Siratum Icenorum, becaule it began in the country of the Icent, who inhabited Norfolk, Suffolk, and Cambridgefire.

ILA, IL.IY, or I/ha, one of the chief of the Hebrides or Weflern illes of Scotland, lying to the weft of Jura, from which it is Ceparated by a narrow channel. It extends 24 miles in length from north to fouth, and is 18 in breath from eall to weft. On the eaft fide there are many lofty fterile mountains; but in the interior, and to the fouthrard and weftward, the land is in good cultivation. A great body of limeftone of a bluifh colour lying in the middle part of the ifland, ftretches almoft through its whole length, and is now extenfively exployed for the purpofes of manure. Narl, which is alfo abundant, is applied to the fame ufe. Lead-ore bas been dug out in feveral places, and at fo early a period as the time of the Danes. The principal har. bour in Inla is at Lochindaal, but there are feveral others which are fafe and commodious. Here are fereral rivers and lakes wall ftored with trout, eels, and falmon. In the centre is Ioch Finlagan, about three miles in circuit, with the little inle of that neme in the middle. Here the great lord of the illes once refided in all the pomp of royalty ; but his palaces and offices are nosv in ruins. Intead of a throne, Macdomald food on a fone feven feet Cquare, in which there was an imnreflion made to receive his feet; here he was cromied and anointed by the bihop of Argyle and feven inferior priefts, in prefence of the chieftains. This fone flill exifts. The ceremony (after the new lord had collected his kindred and vallals) was truly patriarchal. Ater putting on his armour, his helmet, and his fword, he took an oath to rule as his anceitors
had done; that is, to govern as a father would his Ma. children: his people in return fwore that they would pay the fame obedience to him as children would to their parent. The dominions of this potentate, about the year 1586 , confifted only of llay, Jura, Knap. dalc, and Cantyse: fo reduced were they from what they had been before the deprivation of the great earl of Rofs in the reign of James III. Near this is another little ille, where he aflembled his council, Ilan na Corlle, or "the illand of council ;" where 13 judges conftantly fat to decide differences among his fubjects; and received for their trouble the ith part of the value of the affair tried before them. In the firt illand were buried the wives and children of the lords of the illes; but their own perfons were depofited in the more facred ground of lona. On the thores of the lake are fome marks of the quarters of his Carnauch and Gilli-glaffes, "the military of the ifles;" the firft fignifying a ltrong man, the lalt a grim-looking fellow. The firf were light-armed, and fought with darts and daggers; the laft with flarp hatchets. Thefe are the troops that Shakefpeare alludes to, when he fpeaks of a Donald, who

Of Kernes and Gallow-glaffes was fupplied.
Befides thofe already mentioned, the lords had a houfe and chapel at Laggan, on the fouth fide of Lochindaal : a ftrong caftie on a rock in the fea, at Dunowaik, at the fouth-eat end of the country; for they made this illand their refidence after their expulfion from that of Man in 130.4. There is a tradition, that while the ille of Man was part of the kingdom of the illes, the rents were for a time paid in this country : thole in filver were paid on a rock, ftill called Creig-a-ntione, or "the rock of the filver rent;" the other, Cres-a-nairsid, or " the rock of rents in kind." Thefe lie oppofite to each other, at the mouth of a harbour on the fouth fide of this illand. There are feveral forts built on the illes in frefh water lakes, and divers caverns in different parts of the illand, which have been ufed otafionally as places of flrength. The illand is divided into four parithes, viz. Kildation, Killarow, Kilchoman, and Kilmenie. 'The produce is corn of diferent kinds: fuch as bear, which tometimes yields eleven fold; and oats fix fold. Much llax is raifed here, and about 20001 . worth fold out of the illand in yarn, which might better be manufactured on the fpot, to give employ to the poor natives. Nutwithtanding the excellency of the land, above 10301. worth of meal is annually imiorted (A). Ale is frequently made in this illand of the young tops of heath, mixing two-thirds of that plant with one of malt, fometimes adding hops. Boethics relates, that this liquor was much ufed among the Piels; but when that nation was extirpated by the Scots, the fecset of making it perilhed with them. Nurbers of eattle are bred here, and about 1700 are ammally exported at:
(A) This might have been the cafe in the time of Penaant, from whom the above accourt istaken. It is not fo now, although the populaticn has increafed to neary 12,000 . Ina indeed enjoys the peculiar advantages of being not only a grazing but a com country, and can thus afford a very conliderable exportation of both fic ics of na. duce. The number of cattle now exported far eaceeds that tatch above by Pennant.

## I LA $\quad[160] \quad I \quad I \quad C$

Ti. the price of 50 fhillings each. The illand is often overfocked, and numbers die in March for want of fodder. None but milch-cows are houled : cattle of all other kinds, except the faddle-horfes, run out during winter.

The number of inhabitants, when Illay was vifited by Iennant, is computed to have been between feven and eight thoufand. About 700 , fays he, are employed in the mines and is the fifhery : the reft are gentiemen-farmers, and fubtenants or fervants. The women fin. The fervants are paid in kind; the fixth part of the crop. They have houfes gratis; the maffer gives them the feed for the firft year, and lends them horles to plough annually the land annexed.

The quadrupeds of this ifland, as enumerated by Mr Pennant *, are ttots, wecfels, otters, and hares: the laft fmall, dark-coloured, and bad runners. The birds are eagles, peregrine falcons, black and rcd game, and a very few ptarmigans. Red-breafted goofanders breed on the fhore among the loofe ftones, wild geefe in the moors, and herons in the ifland in Loch-guirm. 'The fifh are plaife, fineardab, large dabs, mullets, ballan, lump-fili, black goby, greater dragonet, and that rare fifh the lepadogaiter of M. Gouan. Vipers fwarm in the heath: the natives retain the vulgar error of their flinging with their forked tongues ( B ) ; that a fword on which the poifon has fallen will hifs in water like a red-hot iron; and that a poultice of human ordure is an infallible cure for the bite.

In this ifland, Mr Pemnant informs us, feveral ancient diverfions and fuperfitions are fill preferved : the laft indeed are almoft extinct, or at moft lurk only amongt the very meanelt of the people. The latewakes or funerals, like thofe of the Romans, were attended with foorts, and dramatic entertainments compofed of many parts, and the actors often changed their dreffes fuitably to their charafers. The fubject of the drama was hiftorical, and preferved by memory.-The power of fafcination is as Atrongly believed here as it was by the fhepherds of Italy in times of old.

## Nefcio quis tcncros oculis milii fafcinat ngnos?

But here the power of the evil eye affects more the milch-cows than lambs. If the good houlewife perceives the effect of the malicious on any of her kine, flie takes as much milk as fhe can drain from the enclanted herd (for the witch commonly leaves very little). She then boils it with certain herbs, and adds to them flints and untempcred fteel; after that fhe lecures the door, and invokes the three facred perfons. This puts the witch into fuch an agony, that the comes rilling-willing to the houfe, begs to be admitted, to obtain relief by touching the powerfal pot: the good woman then nakes her terms; the witch rellores the milk to the cattle, and in return is freed from her pains. But fometimes, to five the trouble of thofe charms (for it nay happen that the diforder may arife from other caules than an evil-eye), the trial is made iny immerging in milk a certain herb, and if the cows are fupernaturally affected, it inftantly diftils blood. The urfucceffful lover revenges himfelf on his happy
rival by charms potent as thofe of the thepherd Alphefibrus, and esactly fimilar:

## Nelte tribus nodis ternos, Amarylli, colores: Necte, Amarylli, modo.

Donald takes three threads of different hues, and ties thrce knots on each, three times imprecating the molt cruel difappointments on the nuptial bed: but the bridegroom, to avert the harm, ftands at the altar with an untied fhoe, and puts a fixpence beneath his foot.

Hiftory furnifhes very few materials for the great events or revolutions of Ilay. It fuems to have been long a feat of empire, probably jointly with the ine of Man, as being moft conveniently fituated for the government of the reft of the Hebrides; for Crovan the Norvegian, after his conqueft of that indand in 1066, retire and finifhed his days in Ilay. There are more Danilh or Norwegian names of places in this illand than any other: almoft all the prefent farms derive their titles from them; fuch as Perfibus, Torridale, Torribolfe, and the like. On the retreat of the Danes it became the feat of their fuccefiors the lords of the ifles; and continued, after their power was broken, in the reign of James III. in their defcendants the Macdonalds, who held or ought to bave held it from the crown. It was in the poffeffion of a Sir James Macdonald, in the year 1598, the fame who won the battle of Traii-dhruinard. His power gave umbrage to James VI. who directed the lord of Macleod, Cameron of Lochiel, and the Macneiles of Barra, to fupport the Macieans in another invalion. The rival parties met near the hill of Benbigger, eaft of Killarow; a fierce engagement enfued, and the Macdonalds were defeated and almoft entirely cut off. Sir James efcaped to Spain; but returned in 1620 , was pardoned, received a penfion, and died the fame year at Glafgow; and in him expired the laft of the great Macdonalds. But the king, irritated by the difturbances raifed by private wars waged between thefe and other clans, refumed the grant made by his predeceffor, and transferred it to Sir John Campbell of Calder, who held it on paying an annual feu-duty of five hundred pounds fterling, which is paid to this day. The ifland was granted to Sir John as a reward for his andertaking the conqueft; but the family confidered it as a dear acquifition, by the lofs of many gallant followers, and by the expences incurred in lupport of it.

ILCHESTER, a town of Somerfethire in England, feated on the river Yeovil, 129 miles from London, is fo called, becaufe it once had a cafte, and itands on the river Ivel. It is a place of great antiquity, as appears by the Roman coins which are fometimes dug up. It is likewife crident, from the ruins and from two towers on the bridge, that it was once a large place, and encompaffed with a double wall. It alfo had feveral parih-churches, though now but one. It is governed by two bailiffs, who with the twelve burgefies are lords of the manor. In the reign of Edward III. the alifizes for the county were fixed fere, which have fince been

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Hefonfo. heid alternately at Wells, Taunton, and Bridgewater. The knights of the thire are always chofen herc, and it is the place for the county courts and jail. On the latter is its chief dependence, and therefore it cannot be rery polite. It is noted for being the birth-placc'of Roger the famous Friar Bacon. Ilchefter is an earldom in the Fos family.

ILDEFONSO, Sr, a celebrated royal refidence of Spain, diftant about two miles from Segovia. It was erected by Philip $V$. in the midit of a folitary wood, and in the bofom of fleep mountains. It is chielly remarkable for its gardens. There is nothing magnificent in the palace, particularly in its exterior appearance. The front on the fide of the garden is of the Corinthian order, and not deffitute of elegance. Here are the king's apartments, which look upon a parterre furrounded with vafcs and marble flatues, and a calcade which, for the richnefs of its decorations, may be compared with the finelt of the kind.

The purity and clearnefs of the water is indeed incomparable. Philip V. could not, in this refpect, be better ferved by nature. From the mountains which flade the palace defcend feveral rivulets, which fupply the refervoirs. Thefe waters anfwer the double purpofe of fupplying numerous fountains, and of diffufing life and verdure through the magnificent gardens, the fight of which alone is a fufficient recompenfe for a journey into Spain. They are on the infide a league in circumference. The inequality of the ground affords every moment new points of view. The principal alleys anfwer to different fummits of neighbouring mountains; and one in particular produces the molt agreeable effect. It is terminated at one end by the grand front of the palace. From this point are feen, at one view, five fountains, ornamented with elegant groups, rifing into an amphitheatre, above which appear the fummits of lofty mountains. The moft elewated of thefe groups is that of Andromeda faftened to a rock. When feen at a little diffance it is perhaps defective, becaufe the rock appears too diminutive by the fide of the monfter which threatens Andromeda; and of Perieus, by whom it is attacked; but the whole contributes to the beauty of the viers. The moft remarkable of the five groups is that of Neptune.
"Genius (fays M. Bourgoanne $\dagger$ ) prefided at the compolition and in the choice of the fituation ; the deity of the ocean appears ercet, furrounded by the marine court. His attitude, his threatening countenance, and the manner of holding his trident, announce that he has juil impofed filence on the mutinous waves; and the calm which reigns in the bafor, defended from every wind by the triple wall of verdure by which it is furrounded, fcems to indicate tbat he has not iffued his commands in vain. Often have I feated myfelf, with Virgil in my hand, by the fide of this filent water, under the fhade of the verdant foliage, nor ever did I fail to recollect the famous ${ }^{\text {Quos }}$ Ego!
"There are other fountains worthy of the attention of the curious; fuch as that of Latona, where the limpid fhcaves, fome perpendicularly, and othes in every direction, fall from the hoarfe throats of the Lycian peafants, half transformed - into frogs, and Ppouting them forth in fuch abundance, that the flatue of the goddefs difappears under the wide mantle of liquid cryftal; that alfo of Jiana in the bath, fur-

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rounded by her 1 ngmphs; i:s the twinkling of an eye Idefonfo. all the chafte court is hidden beneath the waters; the fpectator imagines he hears the whilling of aquatic birds, and the roaring of lions, from the place whence this momentary deluge efcapes by a hundred canals. The fountain of Fame is formed by a fingle jet-d'eau, which rifes 130 feet, exhibiting to the diftance of feve. ral leagues round the triumph of art over nature, and falls in a gentle fhower upon the gazing fpectators. There are fome fituations in the gardens of St Ildefonfo, whence the eye takes in the whole or the greater part of thefe fountains, and where the ear is delighted with the harmony of their murmurs. The traveller who wifhes to charm all his fenfes at once, muft take his ftation on the high flat ground in front of the king's apartment. In the thick part of the foliage are contrived two large arbours, from the top of which are feen twenty cryftal columns rifing into the air to the height of the furrounding trees, mixing their refplendent whitenefs with the verdure of the foliage, uniting their confufed noife to the ruftling of the branches, and refrefhing and embalming the air: if the traveller here experience no pleafing fenfations, let lim return home; he is utterly incapable of feeling either the beauties of art or nature.
" The reader may here imagine (continues our author) my enthufiafm too extravagant. He is miftaken; let him follow me to the great refervoir of abundant and limpid watcrs. He will have to climb for fome minutes, but will not regret the trouble he has taken. Let us fuppofe ourfelves arrived at the long and narrow alley which takes up the whole of the upper part of the gardens; proceed to the middle, and turn your face towards the caftle. To the vaft horizon around you, no other boundaries are difcovered but thofe which limit the human fight; thefe alone prevent you from difcovering the Pyrences. Obferve the fteeple, which feems but a point in the immenfe extent: you will perhaps imagine it to be that of the parifh-church of St Ildefonfo; but, in reality, it is the cathedral of Segovia, at two leagues diftance. The gardens, through which you have paffed, become narrower to the eye. You fuppofe yourfelf clofe to the royal habitation; the alleys, fountains, and parterres, have all difappeared; you fee but one road, which, in the form of a veffel, upon the prow of which you feem to ftand, has its ftern on the top of the palace. Afterward turn and take a view of the little lake behind you, of which the irregular borders do not, like what we call our Englifh gardens, merely ape the diforder of nature. Nature herfelf has traced them, except on the fide where you ftand. This ftraight alley is united at each end to the curve which furrounds the refervoir. The waters, which fream in abundance from the fides of the mountain in front, meet in this refervoir, and thence defcend by a thoufand invilible tubes to other refervoirs, whence they are fouted in columns or fheets upon the flowery foil to which they were itrangers. The birds, drawn by their clearnefs, come to fkini and agitate their cryftal. The image of the tufted woods which furround them is retlected from their immoveable furface, as is alfo that of fome fimple and rural houfes, thrown, as by accident, into this delightful picture, which Lorrain would have imitated, but perhaps could not have imagined. The oppofite bank is obX
foured

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ndefonfa fcured by thick thades. Some hollows, overfhadowed by arching trees, feem to be the afylums of the Naiades. Difturb them not' by indifcreet loquacity, but filently admire and meditate.
" It is impolfible, however, not to go to the fource of thefe waters; let us fullow the meandring of their courfe, and obferve the winding paths which there terminate, after appearing and difappearing at intervals through the copfe. Let us liften to the bubbling of the rivulets which from time to time efcape from our fight, and halten to the rendezvous alfigned them by the defcendants of Louis XIV. They formerly loit themfelves in the valleys, where they quenched the thisft of their humble inhabitants, but are now confecrated to the pleafures of kings. Afcending the back of the pyramidical mountain, behind which their fource is concealed, we arrive at the wall which confines a part of them in the garden, and which was hidden by the trees; nothing, however, ought here to rccal to mind exclufive property and flavery. Woods, waters, and the majeftic folitude of mountains, which are at a diflance from the tumult of courts and cities, are the property of ever man.-Beyond this wall, which forms the exterfor enclofure of the gardens, is an empty and that ground, where the infant Don Louis, brother to the king, chofe a place which he confecrated to cultivation. Farther on, the mountain becomes more feep, and is covered with trees to its fummit. Let us now return; as we feek amufement and not fatigue. We will follow the courle of the waters, they defcend in bubbling ftreams from one level of the gardens to the other. In their courfe, in one place they water the feet of the trecs, in others they crofs an alley to nourih more flowly the plants of a parterre. From the bafon of Andromeda they run between two rows of trees in the form of a canal, the too fudden incliantion of which is taken off by cafcades and windings. They receive and carry with them from the gardens the rivulets; which after having played amongtt the gods and nymphs, and moittened the throats of the fwans, tritons, and lions, humbly defcend under ground, and run on into the bofon of the neighbouring meadows, where they fulfi purpofes lefs brilliant but more ufeful.
" We muft not quit thefe magnificent gardens without fopping at a place which appears to promife much, but produces not any very great effect. This is the §quare of the eight alleys, Plaga de las ocho calles. In the centre is the group of Pandora, the only one which is of whitened fone, all the others are of white marble or lead painted of a bronze colour. Eight alleys anfwce to this centre, and each is terminated by a fountain. Plats of verdure fill up the intervals between the alleys, and each has an altar under a portico of white marble by the fide of a bafon facred to fome god or gaddefs. Thefe eight altars, placed at equal diftances, and decorated among other jets-d'eau, have two which rife in the form of tapers on each fide of their divinities. This cold regularity difpleafed Philip V. who a little before his death, when vifiting the gardens, made forme fevere reproaches to the inventor upon the fubject. Philip had not the pleafure of completely enjoying what he had created ; death furprifed him when the works he had begun were but half finifhed. The undertaking was however the moll expecfive one of his
reign. The fnances of Spain, fo deranged under the Ildefonis princes of the houfe of Auftria, (thanks to the wife calculations of Orry, to the fubfidies of France, and fill more to the courageous efforts of the faithful Caftilians) would bave been futicient for three long and ruinous wars, and for all the operations of a monarchy which Philip V. had conquered and formed anew, as well as to have refifted the flocks of ambition and political intrigue; but they funk beneath the expenfive efforts of magnificence."

It is fingular that the caftle and gardens of St Ildefonfo fhould have coft about $45,000,000$ of pialtres, precifely the fum in which Philip died indebted. This enormous expence will appear credible, when it is known that the fituation of the royal palace was at the beginning of this century the lloping top of a pile of rocks: that it was necelfary to dig and hew out the ftones. and in feveral places to level the rock; to cut out of its fides a palfage for a hundred different canals, to carry vegetative earth to every place in which it was intended to fubflitute cultivation for fterility, and to work a mine to clear a paffage to the ronts of the numerous trees which are there planted. All thefe efforts were crowned with fuccefs. In the orchards, kitchen-gardens, and parterres, there are but few flowers, efpaliers, or plants, which do not thrise ; but the trees, naturally of a lofty growth, and which confequently muft frike their roots deep into the earth, already prove the infufficiency of art when it attempts to flruggle againf nature. Many of them languilh with withered trunks, and with difficulty keep life in their almoft naked branches. Every year it is neceffary to call in the aid of gunpowder to make new beds for thole which are to fupply their place; and none of them are covered with that tufted foliage which belongs only to thofe that grow in a natural foil. In a word, there are iir the groves of St Ildefonfo, marble flatues, bafons, cafcades, limpid waters, verdure, and delightful profpects, every thing but that which would be more charming than all the reft, thick flades.

The court of Spain comes hither annually during the heat of the dog-days. It arrives towards the end of July, and returns at the beginning of Ottober. The fituation of St Ildefonfo, upon the declivity of the mountains which feparate the two Caftiles, and fronting a valf plain where there is no obftacle to the palfage of the north wind, renders this abode delightful in furamer. The mornings and evenings of the hotteft days are agreeably cool. Yet as this palace is upwards of 20 leagues from Madrid, and half of the road which leads to it croffes the broad tops of mountains, extremely fteep in many places, it is muchs more agreeable to the lovers of the chafe and folitude than to others.

ILERDA, in Ancient Geography, the capital of the Iligertes; fituated on an eminence between the rivers Sicoris and Cinga: An unhappy city, often befieged, and often taken, becaufe lying expofed to the incurlions from Gaul; and under Gallienus it was deftroyed by the Germans. Now Lerida, in Catalonia, on the river Segra.

ILEX, the Holm or Hozer Tree; a genus of plants belonging to the tetrandria clafs; and in the natural method ranking under the 43 d order, Dumofra. See Botany ledex.

ILFRACOMB ${ }_{i}$

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I!facomb ILFRACOMB, a town of Deronmire, feated ou Ilkuch the Severn fea, almolt oppofite to Swanfea in Glamorganthire, 186 miles from I,ondon. It is a populous, rich, trading fea-port, efpecially with herrings in the Brillol-channel; noted for maintaining conftant lights to direct the feilors; for its convenience of building and repairing thips; and for the fafe thelter thips from Ireland find bere, when it is extremely dangerous for them to run into the mouth of the 'law, which they call Barnllaple-water ; and this is one reafon why the Barnfaple merchants do fo much of their bufinefs at this port. The harbour, with its quay, warp-houfe, lighthoufe, pilot-boats, and tow-boats, were formerly maintained at the expence of the anceftors of the lord of the manor; and then it had a quay or pier 850 feet long; but by time and the violence of the fea all went to decay; to remedy which, the parliament paffed an act in 1731, for both repairing and enlarging the piers, harbour, \&c. It is governed by a mayor, bailiffs, \&c. and confifts chiefly of one ftreet of feattered houfes almoft a mile long. The parith is large, containing feveral tythings and manors.

ILIAC PASSION, a violent and dangerous kind of colic; called alfo volvulus, miferere mei, and chordapfus. It takes its name from the inteftine ilion, on account of its being ufually affected in this diftemper; or perhaps from the Greek verb $\varepsilon$ e久est," to wind or twift ;" whence alfo it is the Latins call it volvulus. See MEdicine Index.

ILIAD, the name of an ancient epic poem, the firl and fineft of thofe compofed by Homer.

The poet's defign in the Iliad was to fhow the Greeks, who were divided into feveral little flates, how much it was their interef to preferve a harmony and good uns derftanding among themfelves; for which end he fets before them the calamities that befel their anceftors from the wrath of Achilles, and his mifunderftanding with Agamemnon; and the advantages that afterwards accrued to thens from their union. The Iliad is divided into 24 books or rhapfodies, which are marked with the letters of the alphabet.

IL.ISSUS, a river running to the ealt of Athens; which, with the Eridanus running on the welt fide, falls below the city into the fea. Sacred to the mufes, called Ifiaffies; on whofe bank their altar ftood, and where the luftration in the lefs myfteries was ufually performed.

ILIUM, Illow, or Ilios, in Ancient Geography, a name for the city of Troy, but moft commonly ufed by the poets, and diftinguifhed by the epithet Weius; at a greater diftance from the fea than what was afterwards called Ilium Novum, and thought to be the Ilienfium Pagus of Strabo. New or modern Ilium was a village nearer the fea, with a temple of Minerva; where Alexander, after the battle of Granicus, offered gifts, and called it a city, which he ordered to be enlarged. His orders were executed by Lyfimachus, who encompaffed it with a wall of 40 ftadia. It was afterwards adorned by the Romans, who granted it immunities as to their mother-city. From this city the Ilias of Homer takes its name, containing an account of the war carried on Between the Greeks and Trojans on account of the rape of Helen; a variety of difafters being the confequence, gave rife to the proverb Ilias Malorum.

ILKUCH, a town of Poland, in the palatinate of

Cracow, remarkable for its mines of filver and lead. It Nlecebrum is feated in a barren and mountainous country, in E. Long, 20. O. N. Lat. 50. 26.

Illumnat.
ILLECEBRUM, a genus of plants belonging to ing. the pentandria clafs; and in the natural method ranking under the $\mathrm{y}^{2}$ th ordcr, Holoraceu. See Botany Index:

ILL.ENOIS, a people of North America, inhabiting a country lying near a large lake of the fame name (called alfo Michigan), formed by the river St laurence. The country is fertile : and the people plant Indian corn, on which they chiefly fubfit. Thay are civil, active, lively, and robult; and are much lefs cruel in their difpolitions than the other Indian nations. They are, however, faid to be grcat libertines, and to marry a number of wives; but fome of their villages have embraced Chriftianity.

ILLICIUM, a genus of plants belonging to the dodecandria clafs; and in the natural method ranking with thofe of which the order is doubtful. See Botavy Index.

ILIUUMINATI, the natne or a fecret fociety, or order, in Germany and other countries of Europe, whafe profefled object, it is faid, was to propagate the pureft principles of virtue ; but whofe real vicws were to fubvert every eftablifhed government and religion, and delivering mankind from the neceffary and falutary reflraints of civil fociety, to bring them to an imaginary ftate of freedom and independence. Of this order much has been faid, and much has been writien; but that a fociety has exifted, regularly organized in the way this has been reprefented, working in fecret, and, at the fame time, poffeling fuch extenfive power and influcnce, no proof whatever has been adduced. The thing indeed feems impoffible. See Masonry, Free.

ILLUMINATING, a kind of miniature painting, anciently much practifed for illuftrating and adorning books. Befides the writers of books, there were artifts whofe profeffion was to ornament and paint manufcripts, who were called illuninators; the writers of books firft finifhed their part, and the illuminators embellifhed them with ornamented letters and paintings. We frequently find blanks left in manufcripts for the illuminators, which were never filled up. Some of the ancient manufcripts are gilt and burnifhed in a ftyle fuperior to later times. Their colours were excellent, and their fkill in preparing them mul have been very great.

The praclice of introducing ornaments, drawings, emblematical figures, and even portraits, into manufcripts, is of great antiquity. Varro wrote the lives of 700 illuttrious Romans, which he enriched with their portraits, as Pliny attefts in his Natural Hiftory (lib. xxxv. chap. 2.). Pomponius Atticus, the friend of Ci cero, was the author of a work on the actions of the great men amongt the Romans, which he ornamented with their portraits, as appears in his life by Cornclius Nepos (chap. 18.). But thefe works have not been tranfinitted to polterity. There are, however, many precious documents remaining, which exhibit the advancement and decline of the arts in different ages and countries. Thefe ineftimable paintings and illuminations difplay the ranners, cuftoms, habits ccclefiaftical, civil, and military, weapons and inftruments of war, utenfils and architecture of the ancients; they are of the greateft ufe in illuftrating many important facls re-
lative

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Ihamirar lative to the hifory of the times in whinch they were ing. exectised. In thele treafures of antiquity, are preferved a great number of fecimens of Grecian and Roman art, which were executed before the arts and feiences fell into neglect and contempt. The manufcripts containing thete fpecimens form a valuable part of the riches pretcrved in the principal libraries of Europe. The Royal, Cottonian, and Harieian libraries, as alfo thofe in the two univerfities in England, the Vatican at Rome, the imperial at Vienna, the royal at Paris, St Mark's at Venice, and many others.

A very ancient MS. of Genefis, which was in the Cottonian library, and almoft dellroyed by a fire in 1731 , contained 250 curious paintings in water eolcurs. liwenty-one fragments, which efcaped the fire, are engraven by the fociety of antiquarians of London. Several fpecimens of curious paintings alfo appear in Lambecius's catalogue of the imperial library at Viemna, particularly in vol. iii. where 48 drawings of nearly equal antiquity with thofe in the Cottonian library are engraven; and feveral others may be found in various catalogues of the Italian libraries. The drawings in the Vatican Virgil made in the fourth century, before the arts were entirely neglected, illuftrate the different fubjects treated of by the Roman poet. A miniature drawing is prefixed to each of the gofpels brought over to England by St Augultin in the 6th century, which is preferved in the library of Corpus Chrifti college, Cambridge: in the compartments of thole drawings are depicted reprefentations of feveral tranfaciions in each gofpel. The curious drawings, and elaborate ornaments in St Cuthbert's gofpels made by St Ethelwald, and now in the Cottonian library, exhibit a ftriking fpecimen of the fate of the arts in England in the 7 th century. 'The fame may be obferved with relpect to the drawings in the ancient copy of the four. gofpels preferved in the cathedral church of Litchfield, and thofe in the Codex Rufhworthianus in the Bodleian library at Oxford. The life of St Paul the hermit, now remaining in Corpus Chrifti college, Cambridge, (G.2.), affords an example of the tyle of drawing and ornamenting letters in England in the 8th century ; and the copy of Prudentius's P(ycomachia in the Cottonian library (Cleop. c. 8.) exhibits the ftyle of drawing in Italy in the $9^{\text {th }}$ century. Of the Ioth century there are Roman dravings of a lingular kind in the Harleian libra. ry ( $\mathrm{N}^{\circ} 2820$.) $\mathrm{N}^{\text {os }} 5280,1802$, and 432 , in the fame library, contain fpecimens of ornamented letters, which are to be found in Irilh MSS. from the iztl to the r 4 th century, Cedmon's Poetical Paraphrafe of the book of Genefis, written in the 1 th century, which is preferved amongft F. Junius's MSS. in the Bodleian library, exhibits many fecimens of utenfils, weapons, infruments of mufic, and implements of hulbandry ufed by the Anglo-Saxons. The like may be feen in extracts from the Pentateuch of the fame age in the Cottonian library (Claud. B. 4.). The manufeript copy of Terence in the Bodleian library (D. 17.) difplays the dreffes, malks, \&c. worn by comedians in the 12 th century, if not earlier. The very elegant Pfalter in the library of 'Trinity college, Cambridge, exhibits fpecimens of the art of drawing in England in the fame century. The Virgil in the Lambeth library of the 13 th century ( $\mathrm{N}^{\circ}+7 \mathrm{~L}$.), written in Italy, fhows both by the drawings and writing, that the Italiansproduced
works much inferior to ours at that period. The copy 1 laminat. of the Apocalypfe in the fame library ( $\mathrm{N}^{\circ} 209$. ), contains a curious example of the manner of painting in the I fth century. - The beautiful paintings in the hilfory of the latter part of the reign of King Richard II. in the Harleian library ( $\mathrm{N}^{\circ}$ 319.), afford curious fpecimens of manners and cuftons, both civil and military, at the clofe of the $14^{\text {th }}$ and in the begianing of the $1 g^{\text {th }}$ century; as does $N^{\circ}$ 2278. in the fame library. - Many other inflances might be produced; but thofe who de. fire farther information may confult Strutt's Regal and Ecclefiaftical Antiquities, $4^{\text {to }}$, and his Horda-Angelcynnan lately publithed in 3 vols.

This art was mucls practifed by the clergy, and even by fome in the highelf flations in the church. "The famous Ofmund (fays Bromton), who was confecrated bihhop of Salifbury, A. D. 1076, did not difdain to fpend fome part of his time in writing, binding, and illuminating boaks." Mr Sirutt, as already noriced, has given the public an opportunity of forming fome judgment of the degree of delicacy and art with which thele illuminations were executed, by publikhing prints of a prodigious number of them, in his "Regal and Ecelefialtical Antiquities of England," and "View of the Cuftoms, \&c. of England." In the firt of thefe works we are prefented with the genuine portraits, in miniature, of all the kings, and feveral of the queens of England, from Edward the Confeffor to Henry VII. mofly in their crowns and royal robes, together with the portraits of many other eminent perfons of both fexes.

The illuminators and painters of this period feem to have been in poffellion of a confiderable number of colouring materials, and to have known the arts of preparing and mixing them, fo as to form a great variety of colours: for in the fpecimens of their miniaturepaintings that are fill extant, we perceive not only the five primary colours, but alfo various combinations of them. Though Strutt's prints do not exhibit the bright and vivid colours of the originals, they give us equally a view, not only of the perfons and drefies of our anceftors, but alfo of their cuftoms, manners, arts, and employments, their arms, thips, houfes, furniture, \&c. and enable us to judge of their 1 kill in drawing. The figures in thofe paintings are often fliff and formal; but the ornaments are in general fine and delicate, and the colours clear and bright, particularly the gold and azure. In fome of thefe illumirations the paffions are ftrongly painted. How frongly, for example, is terror painted in the faces of the earl of Warwick's failors, when they were threatened with a mipwreck, and grief in the countenances of thofe who were prefent at the death of that hero *? After the introduction of print-* See Stran ing, this elegant art of illuminating gradually declined, vol. ii. and at length was quite neglected.

Before concluding, it may not be improper to ob. $5^{5}$. ferve, that from the 5 th to the 10 th century, the miniature paintings which we meet with in Greek manuferipts are generally good, as are fome which we find among thofe of Italy, England, and France. From the ioth to the middle of the $14^{\text {th }}$ century they are commonly very bad, and may be conidered as fo many monuments of the barbarity of thofe ages; towards the latter end of the $14^{t h}$, the paintings in manufcripts were miach improind; and in the two fucceeding cen-
$\mathrm{tuzes}_{3}$
"umina- turies, many excellent performances were produced, ef- arts, when great attention was paid to the works of the ancients, and the fludy of antiquity became fathon-
able.

## ILIUMINATORS. Sec Imeminating.

ILLUMiNED, Illuminati, a church term, an1ciently applied to luch perfons as had received baptilim. This name was occalioned by a ceremony in the baptifm of adults; which confilted in putting a lighted taper in the hand of the perfon baptized, as a fymbol of the faith and grace he had received in the facrament.

Illunined, Illuminati, is alfo the name of a fect of heretics, who fprang up in Spain about the year 1575 , and were called by the Spaniards Alambrados. 'Their principal doctrines were, that by means of a fublime manner of prayer, which they had attained to, they entered into fo perfect a flate, that they had no occafion for ordinances, facraments, nor good works; and that they could give way, even to the vileft actions, without fin. The fect of Illumined was revived in France in the year 1634 , and were foon after joined by the Guerinets, or dilciples of Peter Guerin, who together made but one body, called alfo Illumined; but they were fo hotly purfued by Louis XIIf. that they were foon defroyed. The brothers of the Rofy Crofs are fometimes alfo called Illumined. See Rosycrúsian.

ILLUSTRIOUS, Iflustris, was heretofore, in the Roman empire, a title of honour peculiar to people of a certain rank. It was firf given to the moft diftinguifhed among the knights, who had a right to bear the latus clavus: afterwards, thofe were intitled illufrious who held the firft rank among thofe called lionorati; that is, the prefecti pretorii, prefecti ubis, treafurers, comites, \& c.

There were, however, different degrees among the illuflrious : as in Spain they have grandees of the firt and fecond clafs, fo in Rome they had their illufies, whom they called great, majores; and others lefs, called illu. fires minores.-For inftance ; the profectus priztorii was a degree below the mafter of the offices, though they were both ilhufres.

The Novels of Valentinian difinguifh as far as five kinds of illuftres; among whom, the illuftres adminifratores bear the firft rank.

ILLYRICUM, (Solum perhaps underftood) Livy, Herodian, St Paul; called Illyris by the Greeks, and fometimes Illyria; the country extending from the Adriatic to Pannonia thus called. Its boundaries are varioufly alfigted. Pliny makes it extend in length from the river Arlia to the Drimius, thus including Liburnia to the weft, and Dalmatia to the eaft: which is alfo the opinion of Ptolemy ; who fettles its limits from Mount Scardus and the Upper Moefia on the eaft, to Itria in the welt. A Roman province, divided by Augultus into the Superior and Inferior, but of which the limits are left undetermined both by ancient biftorians and geographers. Illiyrii the people; called Illyres by the Greeks. The country is now called Sclavoria.
iLLYRIUS, Matthias, Flaccus, or Francowitz, one of the moft learned divines of the Aughorg confeffion, born in Iftria, anciently called Illyrica, in $1 ; 20$. Ie is faid :o have been a man of valt genius, extenfive
learning, of grea: zeal agaimt Popery; but of fuch a reltlefs and paffonate teruper, as overbalanced all his good qualities, and occafioned muc! diflurbance in the Proteltant church. Ilc publitied a great number of books, and died in 1575.

MAGE, in a religious fenfe, is $2 n$ artificial reprefentation or fimilitude of fome juerfon or thing, ufed either by way of decoration and o:nament, or as an object of religions worftip and adoration : in which laft fenfe it is ufed indifferently with the ward Inon..

The noble Romans prelerved the images of their anceflors with a great deal of care and concern, and had them carried in proceflion at their funerals and triumplis: thefe were commonly made of wax, or wood, though fometimes of marble or brafs. 'They placed them in the veftibules of their houfes; and they were to flay there, even if the houfes happened to be fold, it being accounted impious to difplace them. Appius Claudius was the firlt who brought them into the temples, in the year of Rome 259, and he added infcriptions to them, thowing the origin of the perfons. reprefented, and their brave and virtuous atchieve-ments.-It was not, however, allowed for all, who had the imazes of their anceftors in their houfes, to have them carried at their funerals; this was a thing only granted to fuch as had honourably difcharged themfelses of their offices; for thofe who failed in this refpect forfeited that privilege; and in cafe they had been guilty of any great crime, their images were broken in pieces. See Igsobiles and Jus.

The Jews abfolutely condemn all images, and do not fo nuch as fuffer any fatues or figures in their houfes, much lefs in their fynagogues or places of worthip.

The ufe and adoration of images are things that have been a long time controverted in the world.

It is plain, from the practice of the primitive church, recorded by the earlier fathers, that Chriftians, for the firlt three centuries after Chrilt, and the greater part of the fourth, neither worlhipped inages nor ufed them in their worflip. Huwever, the greater part of the Popilh divines maintain, that the ufe and worfip: of images were as ancient as the Chrittian religion itfelf: to prove this, they allege a decree, faid to have been made in a council lield by the Apofles at Antioch, commanding the faithful, that they may not err about the object of their worhip, to make images of Chrift and worthip them. Baron. ad ann. Io2. But no notice is taken of this decree, till 700 years after the Apoftolic times, after the difpute about images had commenced. The firft inflance that occurs in any credible author of images among Chrillians, is that recorded by Tertullian de Pudicit. c. 10. of certain cups, or chalices, as Bellarmine pretends, on which was reprefented the parable of the good thepherd carrying the loft fheep on his fhoulders: but this inftance only proves, that the church, at that time did not think emiblematical figures unlawful ornaments of cups or chalices. Another inflance is taken from Eufebius, Hift. Eccl. lib. vii. cap. 18. who fays, that in his time there were to be feen two brafs ifatues in the city of Paneas or Cæfarea Philippi; the one of a woman on her knees, with her arms ftretched out, the other of a man over againft her, with his hand extended to receive her: thefe fatues were faid to be the irgoges of our Saviour

Image. and the woman whom he cured of an infue of blood. From the foot of the fatue reprefenting our Sariour, fays the hiftorian, fprung up an exotic plant, which, as foon as it grew to touch the border of his garment, was faid to cure all forts of diftempers. Eufebius, however, vouches none of thefe things : nay, he fuppofes that the woman who erected this ftatue of our Saviour was a pagan, and afcribes it to a pagan cuitom. Farther, Philoftorgius, Eccl. Hitt.lib. vii. c. 3. exprefsly fays, that this ftatue was carefully preferved by the Chrititians, but that they paid no kind of worhip to it, becaufe it is not lawful for Chrittians to worthip brafs, or aby other matter. The primitive Chriftians abftained from the worthip of images, not, as the Papifts pretend, from tendernefs to heathen idolaters, but becaufe they thought it unlawful in itfelf to make any images of the Deity. Juttin Mart. Apol. ii. p. 44. Clem. Alex. Strom. 5. Strom. I. and Protr. p. 4 6. Aug. de Civit. Dei. lib. vii. c. 5. and lib. iv. c. 32. Id. de Fide et Symb. c. 7. Lactant. lib. ii. c. 3. Tertull. Apol. c. 12. Arnob. lib. vi. p. 202. Some of the fathers, as Tertullian, Clemens Alexandrinus, and Origen, were of opinion, that, by the fecond commandment, the arts of painting and engraving were rendered unlawful to a Chrittian, Alyling then eril and wicked arts. Tert. de Idol. cap. 3. Clem. Alex. Admon. ad. Gent. p. ұ1. Orig. contra Celfum. lib. vi. p. 182. The ufe of images in churches as ornaments, was firf introduced by fome Chriltians in Spain, in the beginaing of the fourth century; but the pratice was condemned as a dangerous innovation, in a council held at Eliberis in 305. Epiphanius, in a letter preferved by Jerome, tom. ii. ep. 6. bears ftrong teftimony againt images, and may be confidered as one of the firft Iconoclasts. The cuftom of admitting pictures of faints and martyrs into the churches (for this was the firlt fource of image-worhip) was rare in the latter end of the fourth century ; but became common in the fifth : however, they were ftill confidered only as ornaments; and even in this view, they met with very confiderable oppofition. In the following century the cuftom of thus adorning churches became almoft univerfal, both in the eaft and weft. Petavius exprefsly lays (de Incar. lib. xy. cap. 14.), that no ftatues were yet allowed in the charches; becaufe they bore too near a refemblance to the idols of the Gentiles. 'Yowards the clofe of the fourth or beginning of the fifth century, images, which were introduced by way of ornament, and then ufed as an aid to devotion, began to be actually worhipped. However, it continued to be the doetrine of the church in the fixth and in the beginning of the feventh century, that images were to be ufed only as helps to devotion, and not as objects of worhip. The worhip of them was condemned in the ftrongeft terms by Pope Gregory the Great; as appears by two letters of his written in 60 t . From this time to the begianing of the eighth century, there occurs no fingle inftance of any worlhip given or allowed to be given to images by any council or allembly of bihops whatever. But they were commonly worShipped by the monks and populace in the beginning of the eighth century; infomuch, that in the year 726 , when Leo umblifhed his famous edict, it had already fyread into all the provinces fubject to the empire.

The Lutherans condemn the Calvinints for breakur the imagen in the churches of the Catholics, look-
ing on it as a kind of facrilege; and yet they condemn the Romanilts (who are profelfed image-wor/hippers) as idolaters: nor can thele laft keep pace with the Grecks, who go far beyond them in this point; which has oceafioned abundance of difputes among them. See Immochasts.

The Mahometans have a perfect averfion to images; which was what led them to deltroy molt of the beautiful monuments of antiquity, both facred and profane, at Contlantinople.

Indge, in Khetoric, alfo fignifies a lively defcription of any thing in difcourfe.

Images in difcourfe are defined by Longinus, to be, in general, any thoughts proper to produce exprefions, and which prefent a kind of pisture to the mind.

But, in the more limited fenfe, he fays, mayes are fuch difcourfes as come from us, when, by a kind of enthufiafm, or an extraordinary emotion of the foul, we feem to fee the things whercot we fpeak, and prefent them before the eyes of thole who hear us.

Images, in rhetoric, have a very different ufe from what they have among the poets: the end principally propofed in poetry is, aftenithmert and furprize; whereas the thing chietly aimed at in profe, is to paint things naturally, and to fhow shem clearly. They have this, however, in common, that they both tend to move, each in its kind.

Thefe_images, or pictures, are of vaft nfe, to give weight, magnificence, and ftrength, to a difcourfe. They warm and animate it; and when managed with art, according to Longinus, feem, 2 is were, to tame and fubdue the hearer, and put him in the power of the fpeaker.

Image, in Optics, a figure in the form of any object, made by the rays of light iffuing from the feveral points of it, and meeting in fo many other points, either at the bottom of the eye, or on any other ground, or on any tranfparent medium, where there is no furface to reflect them. Thus we are faid to fee all objects by means of their images formed in the eye.

IMAGINARY Quantities, or Impolfble Quantities, in A/gebra, are the even roots of negative quan. ties; which expreffions are imaginary, or impoflible, or oppofed to real quantities; as $\sqrt{ }-a a$, or " $\sqrt{ }-a^{4}$, \&c. For as every even power of any quantity whatever, whether pofitive or negative, is neceffarily pofitive, or having the fign + , becaufe + by + , or - by - , give equally + ; hence it follows that every even power, as the fquare for inftance, which is negative, or having the fign -, has no poffible root; and therefore the even roots of fuch powers or quantities are faid to be impofible or imaginary. The mixt expreffions arifing from imaginary quantities joined to real ones, are alfo imaginary ; as $a-\sqrt{ }-a a$, or $b+\sqrt{ }-a a$.

Imaginarr Roots of an equation, are thofe roots or values of the unknown quantity, which contain fome imaginary quantity. Thus, the roots of the equation $x x+a a=0$, are the two imaginary quantities $+\sqrt{ }-a a$ and $-\sqrt{ }-a a$, or $+a \sqrt{ }-1$ and $-a \sqrt{\prime}-1$.

IMAGINATION, a power or faculty of the mind, whereby it conceives and forms ideas of things communicated to it by the outward organs of fenfe. See Metaphysics.

Force of Imagination. See Monster.
IMAGO, in Natural Hiflory, is a name given by

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Linnous to the third fate of infects, when they appear in their proper mape and colours, and undergo no further transforniation.

IMAM, or Imax, a minifter in the Mahometan church, anfwering to a parith prieft among us. The word properly fignifies what we call a prelate, antiffes, one who prefides over others; but the Muffulmans frcquently apply it to a perfon who has the care and intendency of a mofque, who is always there at firt, and reads prayers to the people, which they repeat after him.

Imam is alfo applied, by way of excellence, to the four chiefs or founders of the four principal fects in the Mahometan religion. Thus Ali is the imam of the Perfian, (or of the fect of the Schiaites; Abu-beker the imam of the Sunnites, which is the fect followed by the Turks; Saphii, or Safi-y, the imam of another fect, \& c.

The Mahometans do not agree amiong themelves about this imamate or dignity of the imam. Some think it of divine right and attached to a fingle family, as the pontificate of Aaron.-Others hold, that it is indeed of divine right, but deny it to be fo attached to any fingle family, as that it may not be transferred to another. They add, that the imam is to be clear of all grofs fins; and that otherwife he may be depofed, and his dignity may be conferred on another. However this be, it is certain, that after an imam has once been owned as fuch by the Muffulmans, he who denies that his authority comes immediately from God is accounted impious; he who does not obey him is a rebel; and he who pretends to contradict what he fays is efteemed a fool, among the orthodox of that religion. The imams have no outward mark of diftinction ; their habit is the fame with that of the Turks in common, except that the turban is a iittle larger, and folded fomewhat differently.

IMAUS, in Ancient Geography, the largeft mountain of Afia (Strabo) ; and a part of Taurus (Pliny); from which the whole of India runs off into a valt plain, refembling Egypt. It extends far and wide through Scythia, as far as to the Mare Glaciale, dividing it into the Hither or Scythia intra Imaum, and into the Farther or Scythia extra Imaum (Ptolemy); and alio flretching out along the north of India to the eaflern ocean, feparates it from Scythia. It had various names according to the different countries it run through: Poftellus thinks it is the Sephar of Scripture.
IMBECILITY, a languid infirm fate of body, *lich, being greatly impaired, is not able to perform its ufual exercifes and functions.
IMBIBING, the action of a dry porous body, that abforbs or takes up a moift or fluid one : thus, fugar imbites water; a fponge, the moifture of the air, \&c.
IMIBRICATED, is ufed by fome botanifts, to exprefs the figure of the leaves of fome plants, which are hollowed like an imbrex, or gutter-tile, or are laid in clofe feries over one another like the tiles of a houfe.
imeretia, or Imeretta, the name of a kingdom, or rather principality, of Georgia, confifing of four provinces, is under the dominion of a prince ramed Dauid. See Georciam

The capital, where Prince David refides, is called Imeretie. Curtays. The remains of a church announce that Cur- $\underbrace{\text { Emitation. }}$ tays was formerly a large city; but at prefent it can fcarcely be accounted a village.

Solomon, the father of the prefent fovereign, ordered the city to be deftroyed as well as the ramparts of the city; for he thought, and very wifely, that Caucafus was the only fortification capable of being defended by an army of 6000 men undifciplined and deflitute of artillery.

The number of the inhabitants of Imeretta is reckoned to be 20,000 families; but the greater part of them live neither in towns nor villages, but are difperfed throughout the level country, each of them. poffeffing a fmall hut or cottage. Thefe people have fewer flrangers among them, and they are more engaging in their appearance, than the Georgians. They are of a milder and lefs pufillanimous character; and the principal branch of their commerce confits in wines, a confiderable quantity of which they export in Ikins as far as the confines of Georgia. They are acquainted with no other trade; for they are poor and miferable, and greatly oppreffed by their lords.

The ordinary revenues of Imeretta, like thofe of Georgia, arife from a tythe which vaffals are obliged to pay in wines, cattle, and corn, and forme fubfidies furnifhed annually by neighbouring princes. The extraordinary revenues for the moft part arife from confifcations of every kind; but notwithftanding thic, the finances of the prince are fo limited, that he is often under the neceflity of going from houfe to houfe, to live at the expence of his vaflals, never quitting their habitations until the prefling wants of his hofts abfolutely compel him. It is therefore probable, that the court of the fovereign of Imeretta is as deficient in. brilliancy as his table is in fplendour when he dines at bome. His principal difhes confilt of a certain food called gom, which is a kind of millet boiled, and a. piece of roalt meat, with fome high-feafoned fauce. He never eats but with his fingers, for forks and fpoons. are unknown in Imeretta. At table he generally gives audiences refpecting affairs of the firft confequence, which he determines as he thinks proper; for in every country fubject to his dominions there is no other law but his will.

On Friday, which is the market day, all his new edicts are publifhed by a kind of herald, who climbs up into fome tree, in order to proclaim the will of his fovereign. The Imerettans profefs the religion of the Greek church. Their patriarch mult be of the royal family; but it is feldom that he can either read or write; the priefts who compofe the reft of the clergy are not much more enlightened. The greater part of their churches are pitiful edifices, which can fcarcely be diftinguihed from the common huts of the inhabitants but by a pafteboard crucifix, and a few coarfepaintings of the Virgin, which are feen in them.

IMITATION, derived from the Latin imzare, to " reprefent or repcat," a found or actian, either exactly or nearly in the fame manner as they were originally exhibited.

Imitation, in Muffe, admits of two different fenfes. Sound and motion are either capable of imitating themfelves by a repetition of their own particular modes, or of initating other objects of a nobler and more ab-

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Thitetion. At:acted nature. Nothing perhaps is fo purely mental, nothing fo remote from external fenfe, as not to be imitable by mufic. But as the defcription of this in Ni. Rouffeau, article Imitation, is nobly animated, and comprehends all that is neceffary to be faid on the fubjech, we tranflate it as follows.
" Dramatic or theatrical mufic (fays he) contributes to imitation no lefs than painting or poetry: it is in this common principle that we mult inveltigate both the origin and the final caufe of all the fine arts; * See Beaux as M. le Batteaux has thown *. But this imitation is Arts reduit not equally extenfive in all the imitative arts. Whatìne meme ever the imagination can reprefent to itfelf is in the princif. department of poetry. Painting, which does not pre-
fent its pichures to the imagination immediately, but to external fenfe, and to one fenfe alone, paints only fuch objects as are difcoverable by fight. Nufic might appear fubjected to the fame limits with refpect to the ear; yet it is capable of painting cvery thing, even fuch images as are objects of ocular perception alone: by a magic almolt inconceivable, it feems to transform the ears into eyes, and endow them with the double function of perceiving vifible objects by the mediuns of their own; and it is the greatelt miracle of an art, which can only act by motion, that it can make that very motion reprefent abfolute quiefcence. Night, fleep, filence, folitude, are the noble efforts, the grand images, reprefented by a pitीurefque mufic. We know that noife can produce the fame effect with filence, and filence the fame effect with noife; as when one fleeps at a lecture infipidly and monotonically delivered, but wakes the inftant when it ends. But mufic acts more intimately upon our firits, in exciting by one fenfe difpofitions fimilar to thofe which we find excited by another; and, as the relation between thefe images cannot be fenfible unlefs the impreflion be ftrong, painting, when divefted of this energy, cannot reftore to mufic that affiftance in imitations which the borrows from it. Though all nature hould be afleep, he who contemplates her does not fleep; and the art of the mufician confifts in fubflituting, for this image of infenfibility in the object, thofe emotions which its prefence excites in the heart of the contemplator. He not only ferments and agitates the ocean, animates the flame to conflagration, makes the fountain murmur in his harmony, calls the rattling dhower from heaven, and fwells the torrent to refiftelf rage; ' but he paints the horrors of a boundlefs and frightful defert, involves the fubterraneous dungeon in tenfold gloom, foothes the tempeft, tranquillizes the difturbed elements, and from the orcheftra diffufes a recent fragrance through imaginary groves; nay, he excites in the foul the fame emotions which we feel from the immediate perception and full influence of \{hele objects."

Under the word Farmony, Rouffeau has faid, that no affiftance can be drawn from thence, no original principle which leads to mufical imitation; fince there cannot be any relation between chords and the objects which the compofer would paint, or the paffions which he would exprefs. In the article Meludy, he imagines he has difcosered that principle of imitation which barmony cannot yield, and what refources of nature are employed by mulic in reprefenting thefe objects ard the'te paffons.

It is hoped, however, that in our article of MiELODY, imitation we have fhown upon what principle mufical imitation may be compatible with harmony; though we admit, that from melody it derives its moft powerful energy, and its moft attractive graces. Yet we mull either be deceived beyond all pollibility of cure, or we have felt the power of imitative harmony in a high degree. We are certain that the fury, the impetuofity, the rapid vicifititudes, of a battle, may be fuccefffully and vividly reprefented in harmony. We have participated the exultation and triumph of a conqueft, infpired by the found of a full chorus. We have felt all the folemnity and grandeur of devotion from the flow movement, the deep chords, the fwelling harmony, of a fentimental compofition played upon the organ. Nor do we imagine harmony lefs capable of prefenting the tender depreffion, the fluctuating and tremulous agitation, of grief. As this kind of imitation is the nobleft effort of mufic, it is aflonifhing that it fhould have been overlooked by M. d'Alembert. He has indeed apologized, by informing us, that his treatife is merely elementary: but we are uncertain how far this apology ought to be regarded as fufficient, when it is at the fame time confidered, that he has given an account of imitation in its mechanical, or what Rouffeau calls its technical, fenfe ; which, however, to prevent ambiguity, we hould rather choofe to call mymefts, or anacephaliofis. To Rouffeau's account of the word in this acceptation, we return.
"Imitation (fays he), in its technical fenfe, is a reiteration of the fame air, or of one which is fimilar, in feveral parts where it is repeated by one after the other, either in unifon, or at the diltance of a fourth, a fifth, a third, or any other interval whatever. The imitation may be happily enough purfued even though feveral notes thould be clanged; provided the fame air may always be recognifed, and that the compofer does not deviate from the laws of proper modulation. Frequently, in order to render the imitation more fenfible, it is preceded by a general reit, or by long notes which feem to obliterate the impreffion formerly made by the air till it is renewed with greater force and vivacity by the commencement of the imitation. The imitation may be treated as the compofer choofes; it may be abandoned, refumed, or another begun, at pleafure; in a word, its rules are as much relaxed as ihofe of the fugue are fevere; for this reafon, it is defpifed by the moft eminent mafters; and every imitation of 'this kind too much affected, almoft always betrays a novice in compofition."

Impation, in Oratory, is an endeavour to refemble a fpeaker or writer in thofe qualities with regard to which we propofe them to ourfelves as patterns. The firf hiftorians among the Romans, fays Cicero, were very dry and jejune, till they began to imitate the Greeks, and then they became their rivals. It is well known how clofely Virgil has imitated Homer in bis Eneid, Hefiod in his Georgics, and Theocritus in his Eclogues. Terence copied after Menander; and Plautus after Epicarmus, as we learn from Horace, lib. ii. ep. ad Auguf. who himfelf owes many of his beauties to the Greek lyric poets. Cicero appears, from many paflages in his writings, to have imitated the Greek orators. Thus Quintilian lays of him, that he has exprefled the firength and fublimity of De-

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Inmacu- mulihenes, the copioufnefs of Plato, and the delicacy
late of Ifocrates.
Impale.
IMMACULATE, fomething without ftain, chiefly applied to the conception of the holy Virgin. See Concsrtion, Immaculate.

IMMATERIAL, fomething devoid of matter, or that is pure fpirit. See Metaphysics.

LMNEDIATE, whatever is capable of producing an effect without the intervention of external means; thus we fay, an immediate caufe, in oppofition to a mediate or remote one.

IMMEMORIAL, an epithet given to the time or duration of any thing whofe beginning we know nothing of.

In a legal fenfe, a thing is faid to be of time immenorial, or time out of mind, that was before the reign of our king E'dward II.

IMMIENSITY, an unlimited extenfion, or which no finite and determinate face, repeated ever fo often, can equal.

IMMER, the moft eafterly ifland of all the New Hebrides in the South fea. It lies about four leagues from Tanna, and feems to be about five leagues in circumference; it is of a confiderable height, with a flat top.
immeretta, or Imeretia. See Imeretia.
IMIMERSION, that act by which any thing is plunged into water or other tluid.

It is ufed in chemiftry for a fecies of calcination, when any body is immerfed in a fluid to be corroded: or it is a fpecies of lotion; as when a fubltance is plunged into any fluid, in order to deprive it of a bad quality, or communicate to it a good one.

Imaersion, in Afronomy, is when a far or planet is fo near the fun with regard to our obfervations, that we cannot fee it; being, as it were, enveloped and hid in the rays of that luminary. It alfo denotes the beginning of an eclipfe of the moon, or that moment when the moon begins to be darkened, and to enter into the thadors of the earth.

IMMOLATION, a ceremony ufed in the Roman facrifices; it confifted in throwing upon the head of the victim fome fort of corn and frankincenfe, together with the mola or falt cake, and a little wine.

IMMORTAL, that which will laft to all eternity, as having in it no principle of alteration or corruption.

IMMUNITI, a privilege or exemption from fome office, duty, or impofition, as an exemption from tolls, \&c.

Immunity is more particularly underftood of the liberties granted to cities and communities.

IMMUTABILILY, the condition of a thing that cannot change. Immutability is one of the divine attributes. See God.

IMOLA, a town of Italy, in the territory of the church, and in Romagna, with a bifhop's fee. It is a very handfome populous place; and is feated on the river Santerno, in E. Long. 11. 43. N. Lat. 44. 28.

IMPACT, the fimple or fingle action of one body upon another to put it in motion. Point of impan is the place or point where a budy acts.

IMPA LE, in Hirnligy, is to conjoin two coats of Vol. XI. Part I.
arms pale-wife. Women impale their coats of arms with thofe of their bumands. Sce Meraldry.

To impale cities, camps, fortitications, \&ic. is to inclofe them with pallifadoes.

To Impalz or Empale, fignifies alfo to put to dcath by fpitting on a fake fised upright.

LMPALPABLE, that whofe parts are fo extremely minute, that they cannot be diflinguillied by the fenfeo, particularly by that of feeling.

IMPANATION, a term ufed by divines to fignify the opinion of the Lutherans with regard to the cucharift, who believe that the fiecies of bread and wine remain together with the body of our Saviour after con fecration.

IMPANNELLIING, in Lare, fignifies the witiong down or entering into a parchment, lif, of Tchedule, the names of a jury fummoned by the fheriff to appeas for fuch public fervices as jurics are employed in.

IMPAR LANCE, in Lave, a petition in court for a day to confider or advife what anfwer the defendant fhall make to the plaintiff's action; and is the continuance of the caufe till another day, or a longer time given by the court.

MMPASSIBI.E, that whicls is exempt from fuffering ; or which cannot undergo pain or alteration. The Stoics place the foul of their wife men in an impaifible, imperturbable flate. See Ap.ithy.

IMPASTATION, the mixture of various materials of different colours and confiftencies, baked or bound together with fome cement, and hardened either by the air or by fire.
IMPATIENS, TOUCH-ME-Not, and Balfamine: a genus of plants belonging to the fyngenefia clals; and in the natural method ranking under the 2 qth order, corydales. See Botany Index.

IMPEACHMENT, an accufation and profecution for treafon and other crimes and mildemeanours. Any member of the lower houfe of parliament may impeach any one belonging either to that body, or to the houfe of lords. The method of proceeding is to exhibit articles on the behalf of the commons, by whom managers are appointed to make good their charge. Thefe articles are carried to the lords, by whom every perfon impeached by the commons is always tried; and if they find him guilty, no pardon under the great feal can be pleaded to fuch an impeachment. 12 Will. IlI. cap. ii.
IMPDECCABILES, in church hiftory, a name given to thofe heretics who boalled that they were impeccable, and that there was no need of repentance: fuch were the Gnoftics, Prifcillianils, \&\&c.
IMPECCABILITY, the flate of a perfon who cannot fin; or a grace, privilege, or priuciple, which puts him out of a polfibility of fimning.
The fchoolmen dititinguifh feveral kinds snd degrecs of impeccability : that of God belongs to him by nature : that of Jefus Chrif, conlidered as man, belonys to him by the hypoftatical union; that of the blefied is a confequence of their condition: that of men is the effect of a confirmation in grace, and is rather called impeccance than impeccability; accordingly divines diftinguilh between thefe two: this difinction is found neccflary in the difputes agninit the Pelagians, i: order to cxplain cortain terms in the Greek and latim y fathere:

Impaic 11 Imneceability.

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Impedi- fathers, which without this diftinction are eaflly conments II Imperial.

IMIPEDIMEN゙TS, in Law, are fuch hinderances as put a flop or flay to a perfon's feeking for his right
by a due courle of law. Perfons under impediments are thofe under age or coverture, non compos mentis, in prifon, beyond fea, Exc. who, by a faving in our laws, have time to claim and profecute their rights, after the impediments are removed, in cale of fines lesied, \&c.

IMPENETRABLLITY, in Phillofophy, that property of body, whereby it cannot be pierced by another : thus, a body which fo fills a fpace as to exclude all others, is faid to be impenctrable.

IMPER ATIVE, one of the moods of a verb, ufed when we would command, intreat, or adviie : thus, go read, take pi'i,y, be advifed, arc imperatives in our langruage. But in the learned languages, this mood has a peculiar termination to diltinguith it from others, as $i$, or iso, "go;" lege, or lisico, "read," \&c. and not only fo, but the termination varies, according as you addrefs one or more perions, as audi and audite;


IMPERATOR, in Roman antiquity, a title of honour conferred on victorious generals by their armies, and afterwards confirmed by the fenate.

Imperatur was alfo the title adopted by the Roman emperors.

IMPERATORIA, MASTERUORT, a genus of plants belonging to the pentandria clafs; and in the natural method ranking under the $45^{\text {th }}$ order, Umbellata. See Botany Index.

IMPERFECT, fomething that is defective, or that wants fome of the properties found in other beings of the fame kind.

Imprrfect Number, is that whole aliquot parts, taken all together, do not make a fum that is equal to the number itlelf, but either exceed it, or fall fhort of it; being an abundant number in the former cafe, and a defective number in the latter. Thus, 12 is an abundant imperfect number, becaufe the fum of all its aliquot parts, $1,2,3,4,6$, makes 16 , which exceeds the num. ber 12. And 10 is a defective imperfect number, becaufe its aliquot parts, $\mathrm{r}, 2,5$, taken all together, make only 8 , which is lefs than the number 10 itfelf.

Impenfact Ten/e, in Grammar, a tenfe that denotes fome preterite cafe, or denotes the thing to be at that time prefent, and not quite finihed; as foribeliam, "I was writing." See Grammar.

IMPERIAL, fonething belonging to an emperor, or empire. See Emperor and Eimpire.-Thus we fay, his imperial majefty, the inperial crown, imperiel arms, \&c.

## Imperial Crou'r. Sce Heraldry.

Imperjal Chamber, is a fovereign court, eftablifhed for the affairs of the immediate flates of the empire. See Chamber, and Germany.

Impfrial Cilies, in Germany, are thofe which own no other head but the emperor.

Thefe are a kind of little commonwealihs; the chief nagiftrate whereof does homage to the emperor, but in other refpects, and in the adminiftration of juftice, is focereign.

Imperial citics have a right of coinirg money, and of heeping forces and fortified places. Their deputics
affit at the imperial diets, where they are divided into two branches, that of the Rhine and that of Suabia. There were formerly 22 in the former and 37 in the latter; but there are now only 48 in all.

Imperial Diet, is an affembly or convention of all the fates of the empire. See Diet and Germany.

IMPERSONAL verb, in Grammar, a verb to which the nominative of any certain perfon cannot be prefixed; or, as others define it, a verb deftitute of the two firf and primary perions, as decet, oportct, \&c. The imperfonal verbs of the attive voice end in $t$, and thofe of the paffive in tur ; they are conjugated through the third perfon fingular of almoft all the tenfes and moods: they want the imperative, inflead of which we ufe the prefent of the fubjunctive; as pacniteat, pugnetir, \& c. nor, but a few excepted, are they to be net with in the fupines, participles, or gerunds.

IMPERVIOUS, a thing not to be pervaded or paffed through, either by realon of the clofenefs of its pores, or the particular configuration of its parts.

IMPETIGO, in Medicine, an extreme roughnefs and foulnefs of the kin , attended with an itching and plentiful fcurf.

The impetigo is a fpecies of dry pruriginous itch, wherein fcales or fcurf fucceed apace; arifing from $f_{a}-$ line corrofive humours thrown out upon the exterior parts of the body, by which means the internal parts are ufually relieved.

IMPETRATION, the aft of obtaining any thing by requef or prayer.

Impietration was more particularly ufed in our ftatutes for the pre-obtaining of benefices and churcisoffices in England from the court of Rome, which did belong to the difpofal of the king and other lay patrons of the realm; the penalty whereot is the fame with that of provifors, 25 Ed. IIl.

MMPETUS, is Mechanics, the force with which one body Atrikes or impels another.

IMPLICATION, in Lau, is where fomething is implied that is not exprefled by the parties themfelves in their deeds, contracts, or agreements.

To IMPLY, or carry, in Mufic. Thefe we have ufed as fynonymous terms in that article. They are intended to fignify thofe founds which ought to be the proper concomitants of any note, whether by its own nature, or by its pofition in artificial harmony. Thus every note confidered as an independent found, may be faid to carry or imply its natural harmonics, that is to fay, its octave, its twelfth, and its feventeenth; or, when reduced, its eighth, its fifth, and its third. But the fame found, when confidered as conftituting any part of hamiony, is fubjected to other laws and different limitations It can then only be faid to carry or imply fuch fimple tounds, or complications of found, as the precediag and fubfequent chords admit or require. For thefe the laws of melody and hatmony mult be confulted. See Melody and Marmony.

INIPORTATION, in Commerce, the bringing merchandife into a kingdom from foreign countries; in contradiftinction to exportation. See Export.sT102.

Fu: the principal laws relating to importation, fee Cufiomhoufe Lairs.

MIPOSITION of hands, an ecclefaftical action by which

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impontible which a bimop lays his hand on the head of a perfon, in ordination, confirmation, or in uttcring a bleffing. This practice is alfo frequently obferved by the difienters at the ordination of their minitters, when all the minifers prefent place their hands on the head of him whom they are ordaining, while one of them prays for a blelfing on him and his future labours. This fome of them retain as an ancient practice, juflified by the example of the apofles, when no extraordinary gifts are conveyed. However, they are not agreed as to the propriety of this ceremony; nor do they conlider it as an efiential past of ordination.

Impofition of hands was a Jewifh ceremony, introduced not by any divine authority, but by cuitom; it being the pratice among thofe people whenever they prayed to God for any perlon to lay their hands on his head.

Our Saviour obferved the fame cultom, both when he conferred his blefing on children, and when he cured the fick; adding prayer to the ceremony. The apolles likewife laid hands on thofe upon whom they be:łowed the Holy Ghoft.-The priells obferved the fame cultom when any one was received into their body.-And the apollies themfelves underwent the impoition of hands afreth every time they entered upon any new defign. In the ancient church impofition of hands was even practifed on perfons when they married, which cuflom the Abyfinians fill obferve.

IMPOSSIBLE, that which is not poffible, or which cannot be done or effected. A propofition is fid to be impoffible, when it contains two ideas which mutually deftroy each other, and which can neither be conceived nor united together. Thus it is impoffible that a circle thould be a fquare ; -becaufe we cunceive clearly that fquarenefs and roundnefs deftroy each other by the contratiety of their figure.

There are two kinds of impoffibilities, phafical and moral.

Phyfical impofibility is tbat which is contrary to the law of nature.

A thing is morally impofible, when of its own nature it is poffible, but yet is attended with fuch diffculties, as that, all things confidered, it appears impofible. Thus it is morally impoffible that all men flould be virtuous; or that a man thould throw the fame number with three dice a hundred times fuc. ceffively.

A thing which is impoffible in lave, is the fame with a thing impofible in nature: and if any thing in a bond or deed be impofible to be done, fuch deed, \&ic. is void. ${ }_{21}$ Car. I.

IMPOST, in Architecture, a capital or plinth, to a pillar or pilafter, or pier that fupports an arch, \&c.

Impost, in Law, fignifies in general a tribute or cuftom, but is $n$,re particularly applied to fignify that tax which the crown receives for merchandifes imported into any port or haven.

IMPOSTHUNE, or abfcefs, a collection of matter or pus in any part of the body, either owing to an obftruction of the fluids in that part, which makes them change into fuch matter, or to a tranflation of it from fome other part where it was generated. Sce Surgery Index.

IMPOSTOR, in a general Cenfe, denctes a perfon Impofir who cheats by a fictitness character.

Keligious İmpossors, are fuch as sallely pretend to ${ }^{\text {Imp terecy. }}$ an extraord:nary commifion from heaven; and who terrify and abule the people with falie denurciations of judgments. Thefe are punifhable in the "eneporal courts with fine, imprifonment, and infamous corporal punifhment.

LAIPOTENCE, or Mmpotescy, in gencral, denotes wait of ilrength, power, or means, to perform any thing.

Divines and phitoforleers diftingwith two forts of impotency; nataral and moral. The firl is a want of fome phyfical princinle, receufiry to an action; or where a being is abfolutely defective, or not free and at liberty to act: The fecond only imports a great dificulty ; as a frong habit to the contrary, a violent pallion, or the like.

Intporescy is a term more particularly ufed for a natural inability to coition. Impotence with refpect to men is the fame as ferility in women; that is, an inability of profagating the fpecies. There are many caufes of impotence; as, a natural defect in the organs of generation, which feidom admits of a cure: accidents or difeafes; and in fuch cafes the impotence may or may not be remedied, according as thefe are curable or otherwife. The mott common caufes are, early and immoderate venery, or the venereal difeafe. We have inftances, however, of unfineis for generatios in men by an impediment to the ejection of the femen in coition, from a wrong direction which the orifice at the vecumontnnum got, whereby the feed was thrown up into the bladder. M. Petit cured one patient under fuch a difficulty of emifion, by making an incilion like to that commonly made in the great operation for the fone.

On this fubject we have fome curious and original obfervations by the late Mr John Hunter in his Treatife on the Venereal Difeafe . He confiders impoten- * P. acr, cy as depending upon two caufes. One he refers to the \&c. ad edits mind ; the other to the organs.

1. As to impotency depending upon the mind, he obferves, that as the "parts of generation are not neceflary for the exiftence or fupport of the individual, but have a reference to fomething elfe in which the mind has a principal concern; fo a complete action in thofe parts cannot take place without a perfect harmony of body and of mind : that is, there muft be both a power of body and difpofition of mind; for the mind is fubject to a thoufand caprices, which affect the actions of thefe parts.
"Copulation is an act of the body, the fyring of which is in the mind; but it is not volition: and according to the fate of the mind, fo is the act performed. To perform this act well, the body flould be in health, and the mind thould be perfectly confident of the powers of the body ; the mind Chould be in a flate entirely difengaged from every thing elfe: it thould have no difficulties, no fears, no apprchenfions, not even an anxiety to perform the act well; for even this anxiety is a flate of mind different from what fhould prevail; there thould not be even a fear that the mind itfelf may find a difficulty at the time the act flould be performed. Perhaps no function of

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Impoter' y : the machine depends fo much upon the flate of the mind as this.
" The will and reaioning facuity have nothing to do with this power; they are only employed in the act, fo far as voluntary parts are made ufe of: and if they ever interfere, which they fometimes do, it often procuces another ftate of mind which deftroys that Fihch is proper for the performance of the act; it produces a defire, a wihh, a hope, which are all only diffidence and uncertainiy, and create in the mind the idea of a pombility of tlee want of fuccefs, which deAtoys the proper liate of mind or neceffary confidence.
"There is perhaps no act in which a man feels himfelf more interefted, or is more anxious to perform well; his pride being engaged in fome degree, which if within certain bounds would produce a degree of perfection in an act depending upon the will, or an a C in voluntary parts; but when it produces a flate of mind contrary to that ftate on which the perfection of the act depends, a failure mult be the confequence.
"The body is not only rendered incapable of performing this act by the mind being under the above influence, but alfo by the mind being, though perfectly confident of its power, yet confcious of an impropriety in performing it ; this, in many cafes, produces a ftate of mind which thall take away all power. The ftate of a man's mind refpecting his fifter takes away all power. A confcientious man has been known to lofe his powers on finding the woman he was going to be connected with unexpectedly a virgin.
"Shedding tears arifes entirely from the ftate of the mind, although not fo much a compound action as the act in queftion; for none are fo weak in body that they cannot thed tears; it is not fo much a compound action of the mind and frength of body joined, as the other act is ; yet if we are afraid of thedding tears, or are defirous of doing it, and that anxiety is kept up through the whole of an affecting fcene, we certainly thall not flhed tears, or at leaft not fo freely as would have happened from our natural feelings.
"From this account of the neceffity of having the mind independent refpecting the act, we mult fee that it may very often happen that the fate of mind will be fuch as not to allow the animal to exert its natural powers; and every failure increafes the evil. We mult allo fee from this fate of the cale, that this act mult be often interrupted; and the true caufe of this interruption not being known, it will be laid to the charge of the body or want of powers. As thefe cales do not arife from real inability, they are to be carefully diftinguilhed from fuch as do ; and perhaps the only way to dittinguift them is, to examine into the tate of mind refpecting this act. So trifling often is the circumfance which thall produce this inability depending on the mind, that the very defire to pleafe ftall have that effect, as in making the woman the fole object to be gratified.
"Cafes of this hind we fee every day; one of which I fhall relate as an illuftration of this fubject, and alfo of the method of cure.-A gentleman old me, that he had loft his virility. Atter above an hour's inveltigation of the cafe, I made out the following facts: that he had at unneceffary times ftrong erections, which fhored that he had naturally this power ; that the erections were accompanied with defire, which are all
the natural powers wanted; but that there was ftill almpetency. defect fomewhere, which I fuppofed to be from the mind. I inquired if all women were alike to him? his anfwer was, No; fome women he could hate connection with as well as ever. This brought the defect, whatever it was, into a fmaller compafs : and it appeared that there was but one woman that produced this inability, and that it arofe from a defire to perform the act with this woman well; which defire produced in the mind a doubt or fear of the want of fuccefs, which was the caufe of the inability of performing the act. As this arofe entirely from the fate of the mind produced by a particular circumftance, the mind was to be applied to for the cure; and I told him that he might be cured, if he could perfectly rely on his own power of felf-denial. When I explained what I meant, he told me that he could depend upon every act of his will or refolution. I then told him, that, if he had a perfect confidence in himfelf in that refpect, he was to go to bed to this woman, but firf promife to himfelf that he would not have any connection with her for fix nights, let his inclinations and powers be what they would; which he engaged to do, and alfo to let me know the refult. About a fortnight after, he told me, that this refolution had produced fuch a total alteration in the fate of his mind, that the power foon took place; for inftead of going to bed with the fear of inability, he went with fears that he ftould be poffeffed with too much defire, too much power, fo as to become unealy to him; which really happened; for he would have been happy to have fhortened the time; and when he had once broke the fell, the mind and powers went on together, and his mind never returned to its former itate."
2. Of impotency from a want of proper correfpondence between the actions of the different organs. Our author, in a former part of his Treatife, when confidering the difeafes of the urethra and bladder, had remarked, that every organ in an animal body, withont exception, was made of different parts, whofe functions or actions were totally different from one another, although all tending to produce one ultimate effect. In all fuch organs, when perfect (he obferves), there is a fucceffion of motions, one naturally arifing out of the other, which in the end produces the ultimate effect ; and an irregularity alone in thefe actions will conftitute difeafe, at leaft will produce very difagreeable effects, and often totally fruftrate the intention of the organ. 'This principle Mr Hunter, on the prefent occafion, applies to the "actions of the tefticles and penis: for we find that an irregularity in the actions of thefe parts fometimes happens in men, producing impotence; and fomething fimilar probably may be one caufe of barrennefs in women.
"In men, the parts fubfervient to generation may be divided into two; the effential and the aceffory. The tefticles are the effential ; the penis, \&c. the acceffory. As this divifion arifes from their ufes or actions in health, which exactly correfpond with one another, a want of evactnefs in the correfpondence or fufceptibility of thofe actions may alfo be divided into two: where the actions are reverfed, the acceffory taking place without the firft or effential, as in erections of the penis, where neither the mind nor the teflicles are fimulated to action; and the fccond is where the tefticles perform

Impotency the ation of fecretion too readily for the pecnis, which has not a correfponding crection. The firft is called priapifm; and the fecond is what ought to be called fominal weakne/s.
" The mind has confiderable effect on the correfpondence of the actions of thele two parts: but it would appear in many infances, that erections of the penis depend more ois the fate of the mind than the fecretion of the femen does; for many have the fecretion, but not the erection; but in fuch, the want of erection appears to be owing to the mind only.
" Priapifm often arifes fpontaneoully; and often from vifible irritation of the penis, as in the venereal gonorrhoea, efpecially when violent. The fenfation of fuch erections is rather uneafy than pleafant; nor is the fenfation of the glans at the time fimilar to that arifing from the erections of defire, but more like to the fenfation of the parts imnediately after coition. Such as arife §pontaneoully are of more ferious conlequence than thofe from inflammation, as they proceed probably from caufes not curable in themfelves or by any known roethods. The priapifm arifing from inflammation of the parts, as in a gonorrheea, is attended with nearly the fame fymptoms; but generally the fenfation is that of pain, proceeding from the intlammation of the parts. It may be oblerved, that what is fail of priapilm is only applicable to it when a difeafe in itfelf, and not when a fymptom of other difeafes, which is frequently the cafe.
"The common practice in the cure of this complaint is to order all the nervous and itrengthening medicines; fuch as bark, valerian, mulk, camphor, and alfo the cold bath. I have feen good effe?ts from the cold bath; but fometimes it does not agree with the conftitution, in which cafe I have found the warm bath of fervice. Opiuni appears to be a fpecific in many cafes; from which circumftance I fhould be apt, upon the whole, to try a foothing plan.
"Seminal weaknefs, or a fecretion and emiflion of the femen without erections, is the reverfe of a priapifm, and is by much the worfe difeafe of the two. 'There is great variety in the degrees of this difeafe, there being all the gradations from the exact correfpondence of the actions of all the parts to the tefticles aating alone; in every cafe of the difeafe, there is too quich a fecretion and evacuation of the femen. Like to the priapifm, it does not arife from defires:nd abilities; although when mild it is attended with both, but not in a due proportion; a very flight defire often producing the full effect. The fecretion of the femen thall be fo quick, that fimple thought, or even toying, thall make it Hlow.
"Dreams have produced this evacuation repeatedly in the fame night; and even when the dreams have been fo light, that there has been no confcioufnefs of them when the fleep has been broken by the act of emiffion. I have known cafes where the tefticles have been fo ready to fecrete, that the leaft friction on the glans has
produced an eminion : I have known the fimple axion I materny. of walking or riding produce this cffect, and that repeatediy, in a very fhort fpace of time.
" A young man, zoout four or five and twonty years of age, not fo much given to venery as mont young men, had thefe laft mentioned complaints upor him. Three or four times in the night he would emit; and if he walked faft, or rode on horfeback, the fame thing would happen. He could fcarcely have connection with a woman before he emitted, and in the emiffion there was hardly any $f_{\text {pafm. }}$. He tried every fuppofed Atrengthening medicine, as alfo the cold bath and feabathing, but with no effect. By taking 20 drops of laudanum on going to bed, he prevented the night emiffions; and by taking the fame quantity in themorning, he could walk or ride without the beforementioned inconvenience. I directed this practice to be continued for fome time, although the difeafe did not return, that the parts might be accuftomed to this healthy ftate of action; and I have reafon to believe the gentleman is now well. It was found neceflary, as the confitution became more habituated to the opiate, to increafe the dofe of it.
"The fafms, upon the evacuation of the femen in fuch cafes, are extremely light, and a repetition of them foon takes place; the firit emiffion not preventing a fecond; the conftitution being all the time but little affected ( 1 ). When the teflicles af alone, without the acceffory parts taking up the neceliary and natural confequent action, it is fill a more melancholy difeafe; for the fecretion arifes from no vifible or fenfible caufe, and does not give any vifible or fenifble effect, but runs off fimilar to involuntary ftools or urine. It has been obferved that the femen is more fluid than natural in fome of thefe cafes.
"There is great rariety in the difealed actions of thefe parts; of which the following cale may be confidered as an example. A gentleman has had a fricture in the urethra for many years, for which he has frequently ufed a bougie, but of late has neglected it. He has had no connection with women for a confiderable time, being afraid of the confequences. He has often in his fleep involuntary emifions, which generally awake him at the paroxyfm; but what furprifes him moft is, that often he has fuch without any femen paffing forwards through the penis, wbich makes him think that at thofe times it goes backwards into the bladder. This is not always the cafe, for at other times the femen paffes forwards. At the time the femen feems to pafs into the bladder, he has the erection, the dream ; and is awaked with the fame mode of action, the fame fenfation, and the fame pleafure, as when it paffes through the urethra, whether dreaming or waking. My opinion is, that the fame irritation takes place in the bulb of the urethra without the femen that takes place there when the femen enters, in confequence of all the natural preparatory fteps, whereby the very fame actions are excited as if it came into the
(A) "It is to be confidered, that the conflitution is commonly affected by the fpafms only, and in proportion to their violence, independent of the fecretion and evacuation of the femen. But in fome cafes even the erection going off without the falms on the emiffion, fhall produce the fame debility as if they had takez place."

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Thantury the $;$...fege. from which one would fuppofe, that either 11 $\underbrace{\text { Inprethan }}$ fencun is not fecreted; or if it be, that a retrogiade motion t:lles place in the actions of the acceleratores uri-
n.e. But if the firt be the cafe, then we may fuppofe, that in the natural flate the actions of thofe muicles do not arile fimply from the ftimulus of the lemen in the part, but from their action being a termination of a preceding one making part of a leries of actions. Thus they may depend upon the friction, or the imagination of a friction, on the penis; the tellicles not doing their part, and the fpafm in fuch cafes ariling from the iiftion and not from the lecretion. In many of thule cafes of irregularity, when the erection is not ftrong, it thall go off without the emifion ; and at other times an emnifion fiall happen almoll without an erection ; but theie arife not from debility, but affections of the mind.
" In many of the preceding cales, wafling the penis, fcrotum, and perinaum, with cold water, is often of lervice; and to render it colder than it is in fome leafons of the year, common falt may be added to it, and the parts wafhed when the falt is almof diffolred."

Inpotescy is a canonical difability, to avoid marriage in the firitual court. 'The marriage is not void ab initio, but voidable only by fentence of feparation during the life of the parties.

IMPRECATION, (derived from in, and precor, "I pray;") a curfe or wifh that fome evil may befal any one.

The ancients had their goddeffes called Imprecations, in Latin Dirce, i. e. Deorum ira, who were fuppofed to be the executioners of evil confciences. They were called Dirce in heaven, Furter on earth, and Eumenides in hell. The Romans owned but three of thefe Imprecations, and the Greeks orly two. They invoked them with prayers and pieces of verfes to deltroy their enemies.

IMPREGNATION, the getting a femalc with child. See Conception.

The term impregnation is alfo ufed, in pharmacy, for communcating the virtues of one medicine to another, whether by mixture, coction, digeftion, \&c.

IMPRESSING SEAMEN. The power of impreffing fea-faring men for the lea-fervice by the king's commiffion, has been a matter of fome difpute, and fubmitted to with great reluctance; though it hath very clearly and learnedly been fhown by Sir Wichael Fortler, that the practice of imprefling, and granting powers to the admiralty. for that purpofe, is of very ancient date, and hath been uniformly continued by a regular feries of precedents to the prefent time : whence he concludes it to be part of the common law. 'lhe difficulty arifes from hence, that no ftatute has exprefsly declared this power to be in the crown, though many of them very itrongly imply it. The fatute 2 Rich. II. c. 4. Speaks of marmers being arrefted and retained for the king's fervice, as of a thing well known, and practifed without difpute; and provides a remedy againft their running away. By a later flatute, if any waterman, who ufes the river 'Thames, flall hide himfelf during the execution of any commiflion of prefling for the king's fervice, he is liable to heavy penalties. By another ( 5 Eliz. c. 5.) no fifherman thall be taken by the queen's commiffion to ferve as a mariner; but the com-
mition hall be firft brought to two juffices of the peace, Inareitur inhabiting near the fea coan where the mariners are to Iniprimina be taken, to the intent that the jultices may choofe out and return fuch a number of able-bodied men, as in tise commifion are contained, to ferte her rajeity. And by others, efpecially protections are ailowed to feamen in particular circumftances, to frevent them from being impreffed. Ferrymen are alio faid to be privileged from being imprefied, at comswon law. All which do mort evidently imply a power of impreting to refide fomewhere; and if anywhere, it sunt, frons the fpirit of our conftitution, as well as from the freguent mention of the king's commilion, retide in the crown alore. - After all, however, this method of manning the navy is to be confidered as only defenitible from public receffity, to which all privaie confiderations muft give way.

The following perfons are exempted fom being ior. prefled: Apprentices for three years: the maffer. mate, and carpenter, and one man for every 100 ton-. of vefiels employed in the coal trade; al! under $1 \%$ years of age, and above 55 ; foreigners in merchanthips and privateers; landmen Letaking therafelves in fea for two years; feamen in the Greenlard Ethery, and harpooners, emploved, during the interval of the fihing feafon, in the coal-trade, and siving fecurity to go to the filhing next feafon.

IMPRESSION is applied to the fpecies of objest which are fuppofed to make fome mark or imprefion on the fenfes, the mind, and the memory. The Peripatetics affert, that bodies emit ipecies refenuling them, which are conveyed to the common fenforium, and they are rendered inte!ligible by the active intellect; and, when thus \{piritualized, are called exprefions, or exprefs Species, as being expreffed from the others.

Impression alio denotes the edition of a book, re. garding the mechanical part only; whereas edition, befides this, takes in the care of the editor, who corrected or angmented the copy, adding notes, \&c. to render the work more ufeful.

IMPRISONMENT, the fate of a perfon reftrained of his liberty, and detained under the cuftody of another.

No perfon is to be imprifoned but as the law directs, either by the command or order of a court of record, or by lawful warrant; or the king's procefs, on which one may be lawfully detained. And at common law, a perfon could not be imprifoned unlefs he were guilty of fome force and violence, for which his body was fubject to imprifonment, as one of the higheft executions. Where the law gives power to imprifon, in fuch cafe it is juftifiable, provided he that does it in purfuance of a ftatute exactly purfues the fatute in the manner of doing it; for otherwife it will be deemed falfe imprifonment, and of confequence it is unjuftifiable. Every warrant of commitment for imprifoning a perfon, ought to run, "till delivered by due courfe of law," and "not until farther order;" which has been held ill: and thus it alfo is, where one is imprifoned on a warrant not mentioning any caufe for which he is committed. See Arrist and CommitMENT.

Falfe Imprisonurit. Every confinement of the perfon is an imprifonment, whether it be in a common prifon, or in a private houfe, or in the flocks, or even

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by forcibly detaining one in the public ftreets. Unlawfu' or falfe imprifonment conlifts in fuch confinement rit detention without fufficient authority: which authority may arife either from fome procefs from the courts of juttice; or from fome warrant from a legal power to commit, under his hand and feal, and expreffing the caufe of fuch commitment; or from fome other feecial caufe warranted, for the neceflity of the thing, either by common law or att of parliament; fuch as the arrefting of a felon by a private perfon without warrant, the imprefling of mariners for the public fervice, or the spprchending of waggoners for mitbehaviour in the public highways. Falle imprifonment allo may arife by executing a lawful warrant or procefs at an unlawful time, as on a Sunday; or in a place privileged from from arrefts, as in the verge of the king's court. This is the injury. The remedy is of two forts; the one removing the injury, the other making fatifazion for it.

The means of removing the actual injury of falle imprifonment are fourfold: 1. By writ of Mansprtze. 2. By writ De Onto et Atia. 3. By writ De Honane Peplegiando. 4. By writ of Habeas Corpus. See thofe articles.

The fatiffactory remedy for this injury of falle imprifonment, is by an action of trefpafs wiet armis, ufually called an action of falfe imprifonment; which is generally, and almoft unavoidably, accompanied with a charge of affault and battery alfo: and therein the party thall recover damages for the injuries he has received ; and alfo the defendant is, as for all other injuries committed wihh force, or vi et armis, liable to pay a fine 'to the king for the violation of the public peace.
mMPR-OMPTU, or Inpromptu, a Latin word frequently ufed among the French, and fometimes in Engliih, to fignify a piece made off-hand, or extempore, without any previous meditation, by mere force and vivacity of imagination.

IMPROBATION, in Scots Lau', the name of any attion brought for fetting any deed or writing atide upon the head of forgery.

IMPROPRIATION, in ecclefiattical law. See Appropriatios.

IMPULSION, in Mechanical Philofophy, a term employed for expeefing a fuppofed peculiar cxertion of the powers of body, by which a moving body changes the motion of another body by hitting or flriking it. The plaineft cafe of this a tion is when a body in motion hits another body at reft, and puts it in motion by the ftroke. The body thus put in motion is faid to be napelem: by the other; and this way of producing motion is called inpulston, to diltinguith it from pres. sion, thrusting, or protrusion, by which we pulls a body trom its place without Itriking it. The term has been gradually extended to every clange of motion occafioned by the collifion of bodies. See Mechisics.

IMPURITY, in the inw of Mofes, is any legal deflement. Of thefe there were feveral furts. Some were soluntary, as the tnaching a dead body, or any animal that died of itfelf, or any creature that was eitcemed unclean; or the touching things holy, by one who was not clean, or was not a prieft; the touching nite who had a leprofy, one who had a conorrhra, or who was polluted by a dead carcafe, \&:c. Sometines
thefe impurities were involuntary; as when any one in- Impurty advertently touched bones, or a fepulchre, or any thing polluted; or fell into fuch difeafes as pollute, as the le-
$\underbrace{\text { Inanty. }}$ proly, \&c.

The beds, clothes, and moveables, which had touched any thing unclean, contracted alfo a hind of impurity, and in Come cafes communicated it to others.

Thefe legal pollutions were generally remored by bathing, and lafted no longer than the evening. 'Ihe perfon polluted planged over head in the mater, and either had his clothes on when he did fo, or wafled himfelf and his clothes reparaiely. Other pollutions continued feven days, as that which was contracted by touching a dead body. That of women in their monthly courfes latted till this was over with them. Other impurities lafted 40 or 50 days; as that of women who were lately delivered, who were unclean 40 days after the birth of a boy, and 50 after the birth of a girl. Others again lafted till the perfon was cured.

Many of thefe pollations were expiated by facrifices; and others by a certain water or ley made with the athes of a red heifer, facrificed on the great day of expiation. When the leper was cured, he went to the temple, and offered a facrifice of two birds, one ot whicls was killed and the other fet at liberty. He who had touched a dead bociy, or had been prefert at a funeral, was to be purified with the water of expiation, and this upon pain of deatl. The woman who had been delivered, offered a turtle and a lamb for her expiation; or if the was poor, two turtles or two young pigeons.

Thefe impurities, which the law of Mofes has expreffed with the greateft accuracy and care, were only figures of other more important impurities, fuch as the fins and iniquities committed againft God, or faults committed againt our neighbour. The faints and prophets of the Old 'Teftament were fenfible of this; and our Saviour, in the gofpel, has flrongly inculcated, that they are not outward and corporeal pollutions which sender us unacceptable to God, but fuch inward pollutions as infect the foul, and are violations of juftice, truth, and charity.

IMPUTATION, in general, the charging fome thing to the account of one which belonged to another: thus, the affertors of original fin maintain, that Adam's fin is imputed to all his pofterity.

In the fame fenfe, the righteoufnefs and merits of Chrift are imputed to true believers.

INACCESSIBLE, fomething that cannot be approached, by reafon of intervening obflacles, as a river, rock, \&c. It is chiefly ufed in feaking of beights and diltances. See Mensuration.

INACHUS, founder of the kingdom of Argos, 1856 B. C. See Argos.

INALIENABLE, that which cannot be legally alienated or made over to another: thus the dominions of the king, the revenues of the church, the eflates of a minor, \&c. are inalienable, otherwife than with a referve of the right of redemption.

INANIMATE, a body that lias either lof its foul, or that is not of a nature capable of having any.

INANITION, among phyficians, denotes the fate of the flomach when empty, in oppofition to repletion.

INANITY, the fchool term for emptinefs or ab.

## I N G [ I \% 6 ] I N C

Tarching folute vacuity, and implies the abfence of all body and matter whatfoever; fo that nothing remains but mere fpace.

INARCHING, in Gardening, a method of gratting, commonly called grafiing by approach. See Gardexing Index.

INAUGURATION, the coronation of an emperor or king, or the confecration of a prelate: fo called from the ceremonies ufed by the Romans, when they where received into the college of augurs.

INCA, or YNCA, a name given by the natives of Peru to their kings and the princes of the blood. Pedro de Cieca, in his Chronicles of Peru, gives the origin of the incas; and fays, that that country was, for a long time, the theatre of all manner of crimes, of wat, dilienfion, and the moft dreadful diforders, till at laft two brothers appeared, one of whom was called Mangocapa; of this perfon the Peruvians relate many wonderful ftories. He built the city of Culco, made laws, effablifhed order and harmony by his wife regulations; and he and his defcendants took the name of inca, which fignifies king or great lord. Thefe incas became fo powerful, that they rendered themfelves mafters of all the country from Pafto to Chili, and from the river Maule on the fouth to the river Augafnago on the north; thefe two rivers forming the bounds of their empire, which extended above thirteen hundred leagues in length. This they enjoyed till the divifions between Inca Guafcar and Atabalipa; which the Spaniards laying hold of, made themfelves mafters of the country, and deftroyed the empire of the incas. See Peru.

INCAMERATION, a term ufed in the chancery of Rome, for the uniting of lands, revenues, or other rights, to the pope's domain.

INCANTATION, denotes certain ceremonies, accompanied with a formula of words, and fuppofed to be capable of raifing devils, fpirits, \&c. See Charm, \&.

INCAPACITY, in the canon-law, is of two kinds: I. The want of a difpenfation for age in a minor, for legitimation in a baftard, and the like: this renders the provifion of a benefice void in its original. 2. Crimes and heinous offences, which amul provifions at firft valid.

INCARNATION, in Theology, fignifies the act whereby the Son of God affumed the human nasure ; or the myftery by which Jefus Chrif, the eternal word, was made man, in order to accomplim the work of our falvation. 'I he era ufed among Chriftians, whence they number their years, is the time of the incarnation, that is, of Chrif's conception in the virgin's womb.

This era was firft eftablifhed by Dionyfius Exiguus, abou: the beginning of the fixth century, till which time the era of Dioclefian had been in ufe.

Sonse time after this, it was confidered, that the years of a man's life were not numbered from the time of his conception, but from that of his birth : which cccafioned them to poftpone the beginning of this era for the fpace of one year, retaining the cycle of Dionylius entire in every thing elfe.

At Rome they reckon their years from the incarnation or birth of Chrift, that is, from the $25 \mathrm{th}_{\text {, of }}$ December, which cuftom has obtained from the vear
1431. In France, and feveral other countries, they alfo reckon from the incarnation: but then they differ from each other in the day of the incarnation, fixing it, after the primitive manner, not to the day of the birth, but conception of out Saviour; though the Florentines retain the day of the birth, and begin their year from Chriftınas.

Incarnation (formed from in and caro "flefh,") in Surgery, fignifies the healing and flling up of ulcers and wounds with new flefh. See Surgery.

INCARNATIVES, in Surgery, medicines whiclt were fuppofed to affift nature in filling úp wounds or ulcers with flefh.

1NCENDIARY, in La: $L$, is applied to one who is guilty of malicioufly fetting fire to another's dwell-ing-houfe, and all outhoulcs that are parcel thereof, though not contiguous to it, or under the fame roof, as bams and ftables. A bare intent or attempt to do this, by actually fetting fire to a houfe, unlefs it abfolutely burns, does not fall within the defcription of incendit et combuy $\sqrt{3 t}$. But the burning and confuming of any part is fufficient; though the fire be afterwards extinguihed. It muft alfo be a malicious burning; otherwife it is only a trefpafs. This offence is called arfon in our law.

Among the ancients, criminals of this kind were to be burnt. शui ades, acervumque frumenti juxto domum pofitum fciens, prudenfque dolo malo combuferit, vinctus igni necatur.

The punithment of arfon was death by our ancient Saxon laws and by the Gothic conflitutions : and in the reign of Edward I. incendiaries were burnt to death. The ftat. 8 Hen. VI. c. 6. made the wilful burning of houfes, under fpecial circumflances, high treafon; but it was reduced to felony by the general acts of Edward VI. and Queen Mary. This offence was denied the benefit of clergy by 2 I Hen. VIII. c. 1. which ftatute was repealed by I Edw. VI. c. 12.; and arfon was held to be oufted of clergy, with refpect to the principal, by inference from the ftat. 4 and 5 P . and M. c. 4. Which exprefsly denied it to the acceffory; though now it is exprefsly denied to the principal alio, by 9 Geo. I. c. 22 .

INCENCE, or Fraskincerse, in the Materio Mfedica, \&c. a dry refinous fubftance, known among authors by the names thus and olifanum.

Incenfe is a rich perfume, with which the Pagans and the Roman Catholics ftill perfume their temples, altars, \&c.-The word comes from the Latin incenfum, q. d. burnt; as taking the effect for the thing itfelf.

The burning of incenfe made part of the daily fervice of the ancient Jewith church. The priefts drew lots to know who thould offer it : the deftined perfon took a large filver dili, in which was a cenfer full of incenfe; and being accompanied by amother prieft carrying fome live coals from the altar, went into tbe temple. There, in order to give notice to the people, they flruck upori an inttrument of brafs placed between the temple and the altar; and being returned to the aliar, he who brought the fire left it there, and went away. Then the offerer of incenfe having faid a prayer or two, waited the dignal, which was the burning of the holocauft; immediately upon which he fet fre to the incenfe, the whole multitude continuing
weptive all the tinae in prayer. The quantify of incenfe offeed each day was half a pound in the norning and as mach at night.

One reation of this continual burning of incenfe might be, that the multitude of vichims that were cortimually offered up, would have made the temple firell like a naughter-houfe, and confequently have infpised the comers rather with difguft and averion, than arse and reverence, had it not been overpowered by the agreeable fragrance of thole perfume:

INCEPTIVE, a word uled by Dr Wallis to exprefs fuch monents, of firt principles, which, though of no magnitude themfelves, are yet capable of producing fuch as are. Thus a point has no magnitude itfelf, but is inceptive of a line which it prodeces by its motion. So a line, though it have no breadth, is yet inceptive of breadth; that is, it is capable, by its motion, of producing a furface which has breadth, \&c.

INCEST, the crime of venereal commerce between perfons who are related in a degree wherein marriage is urohibited by the laws of the country.

Some are of opinion, that marriage ought to be permitted between kinsfolks, to the end that the affection fo neceflary in marriage might be heightened by this double tic: yet the rules of this church have formerly extended this prohibition even to the feventh degree ; but time has now brought it down to the third or fourth degree.

Mort nations lool: on inceft with horror, Periina and Egypt alone excepted. In the bifory of the ancient kings of thofe countries we mect with intances of the brother's marrying the fifter ; the reafon was, becaule they thought it too mean to join in alliance with their own fubjeats, and fill more fo to have married into any foreign family.

Incest Spiritual, a crime committed in like manner between perfons who have a firitual alliance by means of baptifm or confirmation.

Spiritual incelt is alfo underfood of a vicar, or other beneficiary, who enjoys both the mother and daughter; that is, holds two benefices, the one whereof depend's upon the collation of the other.

Such a firitual inceft renders both the one and the other of thete benefices racant.

1 NCH , a well-known meafure of length; being the twelfth part of a foot, and equal to three barley-corns in length.

> INEH of Candle, (fale by). See CANDLE.

INCH (contracted from the Gaelic innis "an ifland ${ }^{1}$ ), a word prefixed to the names of different places in Scotland and Ireland.

Ince Colm or Columba, the ille of Columba, an ifland fituated in the frith of Forth in Scotland, and famous Sor its monaftery. See Forth.

This monaftery was fourded about 1123 , by Alexander I . on the following occafion. In pating the frith of Forth he was overtaken with a violent florm, which drove him to this illand, where he met with the moft hofpitable reception from a poor hernit, then refidin $\sigma$ here in the chapel of St Columba, who, for the thrce days that the king remained there tempeft-bound, entertained him with the nuilk of his cow, and a few fiell- fith. His majefly, from the fenfe of the danger ke had efcaped, and in gratitude to the faint to whom Vol. XI. Part I.
he attributed his iafety, vowed fome twlen oi refpe?; Inch Rul. and accordingly founded here a monaftery of Auguf- in tines, aid dedicated it to St Columba. Allan de Mor- Inah wative timer, lord of Aberdour, who attended Ediv. III. in his verbo Scotch expedition, beftowed half of thofe lands on the monks uf this illand, for the pricilege of a family burialplace in their church. The buildings made in confenuence of the piety of Alexander were very confiderable. There are fill to be fecn a large foquare tower belonging to the church, the ruins of the church, and of Ceveral other buildings. The wealth of this ${ }_{1}$ lace in the tire of Edward III. proved fo Arong a temptation to his fleet, then lying in the Forth, as to fupcrefs all the horror of facrilege and relpect to the fanchity of the inhabitants. The Englifh landed, and fpared not evcis the furniture more immediately confecrated to divine worthip. But duc vengeance overtook them; for in a ftorm which inftantly followed, many of them perilhed; thofe who efcaped, fruck with the juftice of the judgment, rorred to make ample recorapenfe to the injured faint. The tempert cealed; and they made the promifed atonement. - The Daniin monunent, figured by Sir Rober: Sibbald, lies on the fouth-eaf fide of the building, on a riting ground. It is of a rigit form, and the furface ornamented with Fcale-like figures. It each end is the reprefentation of a human head.

INCH Kerth, a fimall illand fituaicd in the fame frition, midway between the port of Lcith and Kinghorn on the oppofite thore. See Fozrif.

This illand is faid to derive its name from the gal. lant Keith who fo greatly fignalized himfelf by his valour in 1010 , in the battle of Baryy, in Angue, againf the Danes; after which he received in rewaa the barony of Keith, in Lothian, and this little ifle. In IF49 the Englihh fleet, fent by Elward V1. to affilt the lords of the congregation againit th: queen-dowager, landed, and began to fortify thi; illand, of the importance of which they grew fe:fible after their neglect of fecuring the port of Leitl, fo lately in their power. They left here five contpanies to cover the workmen under the command of Cotterel; but their operations were foon interrupted by M. Deffe, general of the French ausiliaries, who took the place, after a gallant defence on the part of the Englifh. The Scots kept poffeftion for fome sears; but at laft the fortifications were deltroyed by act of parliament, to prevent it from being of any ufe to the former. The French gave it the name of L'je der chesaux, from its property of foon fattening horfes. -In 1497, by order of council, all venereal patients in the neighbourhood of the capital were tranlported there to prevent their difeale from freading, ne quid detrimenti re/p:blica caperct. A lighthoufe, which murt prove highly beneifcial to the fuipping which frequent the Forth, was erected in 1805.
INCA Gareve, a fmall inand, alfo lving in the frith of Forth, near Queensferry. See Forth.
inchantment. See Virchcraft.
INCHO ATIVE, a term fignifying the beginning of a thing or action; the fame with what is otherwife called inceptive.
Inchocique ectós, denote, according to Prifcian anal other grammarians, verbs that are charaferifed by the Z

## I N C

Incigence termination for for, added to their primitives: as Incorcou. At ble clurh. a: Fojco from auges, calejco from calco, diulcefco from dulcis, irafce from ira, \& c.
INCIDEN:E, denotes the direction in which one
body trikes on another. See Optics and Mechanics. Angle of Incidence. See Asgle.
INCIDENT, in a general lenfe, denotes an event, or a particular circumflance of fome event.

INGIDENT, in Law, is a thing appertaining to, or following another that is more worthy or principal. A court baron is infeparably incident to a manor; and a court of pie powders to a fair.

Incident Dilizencc, in Scats Law, a warant granted by a lord ordinary in the court of fetfion for citing witneffes for proving any point, or for production of any writing neceffary for preparing the caufe for a final determination, or before it gocs to a general proof.

Incident, in a poem, is an cpifude, or particular action, joined to the principal action, or depending on it.

A good comedy is to be full of agreeable incidents, which divert the fpectators, and form the intrigue. The poet ought always to make choice of fuch incidents as are fuceptible of ornament fuitable to the nature of his poetn. The variety of incidents well conduted makes the beauty of an heroic poem, which ought aluays to take in a certain number of incidents to fulpend the cataftrophe, that would otherwife break out too fíon.

INCINERATION, (derived from in, and cinis, " allies,") in chemiftry: the redustion of any fubitance into afhes by burning.

INCISIVE, an appellation given to whatever cuts or divides : thus, the fore teeth are calied dentes incilizi, or cutters; and medicines of an attemuating nature, incidents, or incilive medicines.

INCI.E, a lind of tape made of linen yarn.
INCLINATION, is a word frequeitly ufed by mathematicians, and fignifies the mutual approach, tendency, or leaning of two lines or two planes towarcs each other, fo as to make an angle.

Inclination, in a moral fenfe. See Appetite.
INCLINED PLANE, in Mechanics, one that makcs an oblique angle with the horizon. See Mechavics.

INCOGNIYO, or INCOG, is applied to a perfon who is in any place where he would not be known: but it is more particularly applied to princes, or great men, who enter towns, or waik the ftrects, without their ordinary train or the ufual marks of their dintinction and qualitr.

INCOMBUSTIBR.E clotif. See Asbrestos, Mixeralogy Index. On this Croilledt ubferves, that the natural atore of the abenti is in proportion to their economical ufe, both being very inconfiderable. 'It is an old tradition (fays he): that in former ages they male clothes of the fibrous albelt, which is faid to be compofed by the word lyffes; but it is not very probable, fince if one may conclude from fome trifles now made of it, a; bags, ribbons, and other things, fuch a direfs could neither have an agreeable appearance, nor ine of any conveniency or advantage. It is more probable that the Scythians dreffed their dead bodies which ware to be burned, in a cloth manufactured of this fone; and this perhaps has occafioned the above
fable." M. Magellan confirms thi opinion of Cron-Incom'sus Atedt's, and informs us that fome of the Romans alfo i:clofed dead bodies in cloth of this kind. In the year 1756 or 1757 he tells us, that he faw a large piece of Incorrup albefos cloth found in a Ione tomb, with the alhes of a Roman, as appeared by the epitaph. It was kept, with the tomb alfo, if our author remembers rightly, in the right hand wing of the Vatican library at Rome. The under-librarian, in order to thow that it was in. combuftible, lighted a candle, and let fome drops of wax fall on the cloth, which he fet on fire with a candle in his prefence without any detriment to the cloth. Its texture was coarfe, but much fofter than he could have expected.

Incombirstible, fomething that cannot be burnt or confumed by fire. See Asbes ros.

INCOMMENSURABEE, a term in Geonetry, ufed where two lines, when compared to each other, hase no common meafure, how fmall foever, that will exactly meafure them both. Aad in general, two quantities are faid to be incommenfurabie, when no third quautity can be found that is an aliquot part of both.

Incommensurafle lumbers, are fuch as have no common divifor that will divide them both equally.

INCOMPATIBLE, that which cannet fubtit with another without deffroying it: thus cold and heat are incompatible in the fame fubject, the strongent overcoming and expelling the weakell.

INCONTINENCE, inordinacy of the fexual appetite ; luft. It is the oppolite of challity. See Chastity and Continenge.

Incontwence, in the eye of law, is of divers kinds; as in cafes of bigamy, rapes, fodomy, or buggery, getting baftards; all which are punithed by tatute. See 25 Hen. VIII. cap. 6. is Eliz. cap. 7. I Jac. I. cap. ıs. Incontinency of priefts is punithable by the ordinary, by imprifonment, \&c. 1 Hen VII. cap. 1 .

Incontinence, in Medicine, fignifies an inability in any of the organs to retain what thould not be difcharged without the concurrence of the will. It is molt frequently applicd to an involuntary difcharge of urine. See Medictine. Inde?.

INCORPORATION, in Pharmacy, is the reduction of dry fubllances to the confiftence of a patte, by the admixture of fome fuid: thus pilis, boles, \&c. are made br incorporation.

Incorpization, or Body-Corporate. See CorforaTlos.

INCORPOREAI, fpiritual; a thing, or fub!lance, which has no body. Thus the foul of man is incorporeal, and may fubfilt independent of the body. See Metaphysics.

INCORRUPTIBLE, that which canot be corrupted. Thus $i_{\text {P }}$ initual fubflances, as angels, human "uls, \&ic. and thus alfo, glafs, gold, mercury, Sic.may be called incorrupsilile,

INCORRUPTIBLES, INGorruptibiles, the name of a fect which fprang out of the Eutychians.-Their diftinguifing tenet was, that the buly of Jefus Chrift was incorruptible; by which they meant, that after and from the time sherei: he was formed in the womb of his huly mother, he was no: fufceptiole of any change or alteration; not even of any natural and innoceat paffions, as of hunger, thirll, \&c. fo that he
acräz:ingaie without any cccalion, tefore his death, as well as indeuture. ater his relurrecition. And laence it was that they took their nare.

LNCRASS:illNG, in Pharmacy, \&c. the remdering of fiuids thicker by the mixture of oilier lubfances lefs Huid, of by the cvaporation of the dinner parts.

INCUBATION, the action of a hen, or other fowl, hronding on ler eggi. Sce HATcuinc.

INEUBUS. NIGHZ M.IRI, a difeafe confifing in an oppreflion of tie breaf, fo very vic!ent, that the patient camot fpeak or even lreathe. The word is derived from tlic Jatiz incw'are, to " lie down" on any thing and prefs it: the Grecks call it :9̂:2Ring q. d. falicior, "leaper," or o:e that ruiheth on a perfon.

In this difeafe the fenfes are not quite loff, but drowned and afonifned, as is the underitanding and imagivation; fo that the patient feems to think fome luge weight throwin on him, ready to ftrangle bim. Children are very liable to this diftemper; fo are fat Feople, and mes of much ftudy and application of mind: by reafon the thomach in all thefe fuads fome difo ficulty in digeftion.

IN゙CUABENT, a cleck or miniler who is refident on his benefice; he is called incumblent, tecaule he does, or at lealt ought to, bend his whole ftudy to difcharge the cure of his churcin.

INCURVATION of the Rays of Light, their bending cut of a rectilircar fraight courfe, occafioned by retraction. \&ec Ortics.

INCUS, in Anaton:y, a bone of the internal ear, fomen ba: refembling cne of the anterior centes molares. See Amateny, $\mathrm{N}^{0}{ }_{141}$.

INDFFE $\triangle$ SIBi.E, a term in law for what cannot be deteated or made void; as an indefeasible ettate of inheri-ance, \&c.!

Indffegsibie Right to tie Throrne. See HerediTлinc Richt.

INDEFINITE, hat which has no certain bounds, or to winch the buman mind camot afix any.

Indcfinite: in Gramimat, is underltood of nouns, prorouns, verbs, participles, articies, \&c. which are left in an uncertain indeterminate fenfe, and not fixed to any particular time, thing, or other circumftance.

INDELIBLE, fomething that cannot be cancelied or effaced.

INDEMNITY, in I.aw, the faving harmlefs; cr a mriting to fecure one from all damage and danger that may enfue from any act.

INDENTED, in Heraldry, is when the outline of an ordinary is notched like the teeth of a faw.

INDENTURE, in Law, a writing which commifes fome contract betseen two at least; being indented at top, anfreerable to another part which has the fame contents. Sec Deed.

INDEPENDENOS, a feat of Protefants fo called Indepe?from thers mainaining that earin congrestion of $C^{\prime}$ rif. tians, which meets isi one houic fur ?ublic worlhip, is a complete church, has futherent poser to act and prorm every thing relating :o teltious government within itfelf, and is in no reiped fubject or accountatle to otter cliurches.
' 1 he Independents, line every other Chrifian fect, The it orio derive their onn windia fron the practice of the ${ }^{\text {inn }}$ anofles in planting the firt churches; but they wenc unknomi: modern tinee till thev arofe in England durinh the reign of Eitatueth. The lierarchy e!tablifhed ly that pinceis its the churches of her dominions, the vefmen*s worn by the ciergy in the ccle. bration of divine worfhip, the boolk of ecramon prayer, and abore all the fign of the crois nfed in the adminifirction of laptim, were very cfeafive so many of het fulyjects, who during the perfecution of the former reign had taken refuge among the Proteltarits of Germany and Ceneva. Thoof men thought that the churcin of Enstiar d relembled, in too many particulars, the antichrinian church of Rome; and they called perpetnaily for a more thorough reformation and a pherer worlip. From this circumftance they were ftigmatized by their adserfaries with the general name of Puritans, as the followers of Nowatian' (A) had been in the ancient church. Elizabe:h was not difpofed to comply with their demands; and it is difficuit to fay what might hare heen the iffue of the contelt, had the Puritans been united among themfelves in fentimens, views, and meafures. Piut the cale was quite otherwife. That large body, compoied of perfons of different ranks, characters, opinions, and intentions, and unanimous in nothing but in their antipathy to the forms of doctrine and difcipline that were eftablifhed by law, was all of a fudden divided into a raricty of fects. Of thefe the mot famous was that which tras formed ahout the year j $j 8 \mathrm{I}$ by Robert Brozin, a man infinuating in his manners, but unteady and inconfiltent in his views and notions of men and things. See Brnws.

This innovator differed not in point of doctrine either from the church of England, or from the relt of the Puritans; but he had formed notions then new and fingular concerning the nature of the church aikd the rules of ecclefialical government. $\mathrm{H}=$ was for dividing the whole body of the faithful into feparate focieties or congregations; and maintained, that fuch a number of perfons as could be contained in an ordinary place of worthip ought to be confidered as a church, and enjoy all the rights and privileges that are competent to an ecclefiaflical community. Thefe fmall rocieties he pronounced indoperdent jure divino, and entirely exempt from the jurifdiction of the bihops, in whofe hands the court had placed the reins of fpiritual government; and alfo from that of prefbyteries Z 2
and
(A) The followers of Nowatian were called Purimns, becaufe they rould not communicate with the Catholic church, under pretence that her communion was polluted by admitting thofe to the facred myfteries who through infirmity had facrificed to idols in times of perfecution. Thefe unhappy men were not received by the church till after a long courfe of penance. The Novatians would not receive them at all, however lung their penance, or however fincere their forrow, for their fin. In other refpects, the ancient Puritans were, like the Englith, orthodox in the faith, and of irreproachable morals.

Yeicmendents.
and fynows, which the Puritans regarded as the fuprems vifible fources of ecclefiaftical authority. He alfo main. tained, that the porver of governing each congregation refided in the people; and that each member had an equal thare in this government, and an equal right to order matters for the good of the whole fociety. Hence all points both of doctrine and difcipline were fubmitted to the difcuffion of the whole congregation; and whatever was fupported by a majority of voices paffed into a law. It was the congregation aifo that elected certain of the brethren to the office of pattors, to perform the duty of public inftruction, and the feveral branches of divine worfaip; referving, however, to themfelves the power of difmifing thefe minilters, and reducing them to the condition of private members, whenever they fhould think fuch a change conducive to the fpiritual advantage of the community. It is likewife to be obferved, that the right of the paftors to preach was by no means of an exclufive nature, or peculiar to them alone; fince any member that thought proper to exhort or inftruct the brethren, was abundantly indulged in the liberty of prophefying to the whole aftembly. Accordingly, when the ordinary teacher or paftor had funifhed his difcourfe, all the other brethren were permitted to communicate in public thei- fentimeats and illuftrations upon any ufeful or edifying fubject.

The zeal with which Brown and his aflociates maintained and propagated thefe notions was in a high degree intemperate and extravagant. He affirmed, that all commanion was to be broken off with thofe religious focieties that were founded upon a different plan from his; and treated, more efpecially the church of England, as a fpurious church, whofe minifters were unlawfully ordained, whofe difcipline was popifh and antichrifian, and whofe facraments and inftitutions were defitute of all efficacy and virtue. The feet of this hot-headed innovator, not being able to endure the levere treatment which their own violence had brought upon them from an adminiflration that was not diftinguithed by its mildnefs and indulgence, retired into the Netherlands, ind founded churches at Middlebourg in Zealand, and at Amfterdam and Leyden in the province of Holland; but their eftablifhments were neither folid nor lafing. Their founder returned into Cngland; and having renounced his prineiples of feparation, took orders in the eftablifted church, and obtained a bencfice. The Puritan exiles, whom he thus abandoned, difagreed among themfelves, were fplit into parties, and their affairs declined from day to day. This engaged the wifer part of them to mitigate the 反everity of their founder's plan, and to foften the rigour of his uncharitable decifions.

The perfons who had the chief merit of bringing about this reformation was one of their pattors called Jokn Robirfon, a man who had much of the folemn piety of the times, and no inconfiderable portion of learning. This well-meaning reformer, percciving the defects that reigned in the difcipline of Brown, and in the fpirit and temper of his followers, employed his zeal and diligence in correcting them, and in newmodelling the fociety in fuch a manner as to render it lefs odious to its adverfarics, and lefs liable to the juft eenfure of thofe true Chritians, who losised upon chasity as the cnd of the commandments. Hitherto the
fect had been called Brownifs ; but Robinfon having, Independ in lis Apology, affirmed, Catum quemilito particularem, effe toram, intogram, et parfećfam ecrlefiazn ex fuis partibus confantem immediate e: inderfnoenter (quoad alias ecclefias) fub ipfo Chrita, - the fect was henceforth called Independents, of wich the apologif was confidered as the founder.

The Independents were much more commendable than the Broswits. They furpafled them both in the moderation of their fentiments, and in the order of their difcipline. They did not, like Brown, pour forth bitter and uncharitable invectives againft the churches which ware governed by rules entirely different from theirs, nor pronounce them on that account unworthy of the Chritian name. On the contrary, though they conndered their own form of ecclefiaftical government as of divine inffitution, and as originally introduced by the authority of the apoitles, may by the apoftles themCelves; they had yet candour and charity cnongh to acknowledge, that true religion and folid piety might flourith in thofe commmities which were under the juridiction of bithops or the government of fynods and prebyteries. This is put beyond all doubt by Robinfon himfelf, who expreffes his own private fentiments and thofe of his community in the following clear and precile words: "Praftemur coram Deo ef hominibus, adeo nobis convenire cum ccclefus reformais Belgicis in re religionis, ut omnibus et finjulis earun. dem ecclefiarun fidei articulis, prout habentur in harmonia confeffionum fudei, parati fimus fulferiticre. Ec. clefas reformatas pro reris ef genuinis habomus, cums iffden in /acris Dei communioncm profitenur, ei, quan. tum in nolis eft, colimus. They were allo much more attentive than the Brownifts, in keeping on foot a regular miniftry in thcir communities: for while the latter allowed promifcuoufly all ranks and orders of men to teach in public, the Independents had, and fill have, a certain number of minifers, chofen refpectively by the congregations where they are fixed; nor is any perfon among them permitted to fpeak in public, before he has fubmitted to a proper examination of his capacity and talents, and been approved of by the heads of the congregation.

This religious fociety fill flubfifs, and has produced divines as eminent for learning, piety, and virtue, as any church in Chriftendom. It is now ditingnifhed from the other Protcfant commu:aities chiefly by the two following circumitances.

1. The Independents reject the ufe of all creeds and In what confeffions drawn up by fallible men, requiring of their they are teachers no other teft of orthodoxy that a declaration row diftin of their belief in the gofpel of Jefus, and their adhe-fom othe rence to the Scriptures as the fole flandard of faith Proteftant and practice.
2. They attribute no virtue whatever to the rite of ordination, upon thich fone other churches lay fo much Arefs; for the Independents declare, that the qualifications which condituie a regulas minifte of the New Teftament, are, a firm belief in the gofpel, a principle of fincere and unaffected piety, a competent frock of knowledge, a capacity for leading devotion and communicating infiruction, a ferious inclination to cngage in the important emuloyment of promoting the everlalting falvation of mankind, and ordinarily as inritation to the paftoral onice from fome particular fo-

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idepend cicty of Chritians. Where theie things concur, they ents. contider a perfon as fitted and authorifed for the difcharge of every duty which belongs to the minillerial funtion; and they believe that the impofition of the hands of bifhops or prefbyiers would conscy to him no poreres or prerogatives of which he was not before pollifled.

When the reformers feparated from the cluurch of Rome, they drew up public confcflions of faith or articles of religion, to which they demanded fubfeription from their refpective followers. Their purpofe in this was to guard againit dangerous herefies, to afcertain the meaning of Scripture-language, and, we doubt not, to promote the unity of the fuirit in the bond of peace. Thele were laudable ends; but of the means chofen for attaining them, the late Dr Taylo: of Norwich, the glory of the Independent churches, and whofe learning would have done honour to any church, exprefles his opinion in the following indignant language: "How much fo cver the Chriftian world valueth thefe creeds and confeflions, I confels, for my own part, that I have no opinion of them. But we are told that they were generally drawn up by the ableit divines. But what evidence is there of this? are divines in vogue and porwer commonly the molt knowing and upright? But granting that the reformers were in thofe days the ablelt divincs; the ablelt divines educated in popifh fchools, notwithltanding any pretended learning, might comparatively be very weak and defective in feripture knowledge, which was a thing in a manner new to them. In times of great ignorance they might be men of eminence; and yet far fhort of being qualified to draw up and decide the true and precife rules of faith for all Chrillians. Yea, their very attempting to draw up, decide, and eflablith, fuch rules of faith, is an inconteffable evidence of their furpriting ignorance and weaknefs. How could they be able divines, when they impofed upon the confciences of Chriltians their own decifions concerning gofpelfaith and dof:ine? Was not this in fact to teach and contrain Chriftians to depart from the molt fundamental principle of their religion, fubjection and allegiance to Chirif, the ouly teacher and lawgiver? But if they were able men, were they infallible? No: they publicly af firmed their own fallibility; and yct they acted as if they had been infallible, and could not be mitaken in preferibing faith and doctrine.
" But even if they were infallible, who gave them commilfion to do what the Spirit of God had done already? Could the firt reformers hope to deliver the truths of religion more fully and more clearly than the Spirst of God? Had they found out more apt expreffions than had occurred to the Ifoly Spirit? 'The Son of God ' pake not of himfelf; but as the Father faid Luto him, fo he fpake,' (John xii. so.). 'The Spirit of truth fpake not of himfelf; but whatfoever he heard, that be fpake,' Johu xvi. 13.). 'The things of God the apofles fpake, not in the words "hich man's wifdom teacheth, but which the Holy Ghof teacheth.' (1 Cor. ii. 13.). If the Chrithin revelation was thus handed do:n to us from the Foumenin of Light with fo much care and exactnef, both as to matter and worde, by the Son of Gad, by the Spiril, an:! by the epofiles, who were the ancient docturs and linhope? or who were the Eiff reformers? or who were any fynods
or alfemblies of divines, that they dared to model Chri- 1 udvenenfian faitls into their own invented forms, and impofe it upon the minds of men in their own devifed terms and exprelfions?
"Hath Chrift given authority to all his minifers to the end of the world, to new-mould his doatrines by the rules of human learning whenever they think fit? or hath he delegated his power to any particular perfons? Neither the one nor the other. IFis doctrines are not of fuch a ductile nature; but fiand fixed, both as to matter and words, in the Scripture. And it is at any man's peril, who pretends to put them, as chey are rules of faith, into any new drefs or thape. I concludc, therefore, that the firt reformers, and all councils, fynods, and affemblies, who have met together to collect, determine, and decide, to prefcribe and impofe matters pertaining to Chriftian faith, have acted without any warrant from Chrif, and therefore have invaded the prerogative of him who is the fole Prophet and Iawrgiver to the church. Peace and unity, I know, is the pretended good defign of thofe creeds and confeffions. But as God never fanctified them for thofe ends, fo all the world knows they have produced the contrary effects ; difcord, divifion, and the filling of whole feas of Chrittian blood for 1400 years together."

Such fentiments as thefe are nor maintained by Chrillians of various denominations; but they were firt avowed by the Independents, to whom therefore the merit or demerit of bringing them to light propeily belongs. Our readers will think difterently of them according to their preconceived opinions; but it is not our prorinee either to confirm or to confute them. They rife almoft neceflarily out of the independent fcheme of congregational churches; and we could not fupprefs them without deviating from our fixed refolution of doing jullice to all religious partics, as well thofe from whom we differ as thofe with whom we agree. It ought not, however, to be rathly concluded, that the Independents of the prefent age, merely becaufe they reject the ufe of all creeds of human compoition, doubt or dibelisve the doctrines deemed orthodus in other churches. Their predeceffors in the laft century were thought to be more rigid Calsinitts than the Preibyterians themfeives; as many of thofe may likewife be who in the prefent century admit not the confelions and formulas of the Calvinillic churches. They acknowledge as divinc truth every Not theredoctrine contained in the Scriptures; but they think fore neecefthat fcipture-doftrines are moft properly exprefied in farity hetefcripture language; and the fanne tpirit of religious rodox. liberty, which makes them reject the authority of biChops and fynods in matters of difcipline, makes them rcject the fame authority in matters of faith. In either cafe, to call any man or body of men their matters, woult, in their opinion, be a violation of the divine law, fince " one is their mafter, even Chrith, and they are all brethren."

In fupport of their flieme of congregutional charches, Their arge. they obferve, that the word ezzinowe, which wc tranilatements ior church, is alsays ufed in Scripture to tignify cither a the idefingle congregation, or the /lace where a fing le coangre pend congregation mect. Thus that unlan "ul affimbly at Ephefus ant mat brought trugether againa l'aul by the cratefmen, is inurches. c:alcd serv:nate, a church, (Aets ais. 32,39, 4.). The word, however, is gencully applice to a mose facred.

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 entc. the pare in which it airembles. The whe t. $v$ of the diciules 2: Corizeh is called tho clarch, and fioken of as ceming together into one place, (1 Cur. viv. 23.) The flace into which they came together we find likewife called a church; "when yc rome together in the church.-w! - we ye come toreticer nto one flace," ( Cur. גi. 18, 25.). Whercyer there wire more congregations than ote, there wore linemife nore churches tian one: "ilas," Lat your wamen kee; blence in the
 nation u Ifael is indeed ralled a clumeh, but it was no more than a fingle congresction; for it had hut one place of pubie worioip.. ?L. the fiot tabernacle, and afterwards the iumnie. 'ithe Caiholic church of Chrin, lis boly nation and kingdom, is likcwife a fingle congregation, haing one place of worhip, viz. hecuc\%, where all the members afienbie by faith and lold communion; and in which, when they fall all be fully gathered together, they will in fact be one glorious affembiy. Wre sind it called "the generai aflembly and church of the firt-born, whofe names are writell $i_{1}$ heaven.:"

Belides thefe, the Independent $c$ an find $w$ other defoription of a church in the New Teffament; not a irace of a diocele or preblytery confifing of feveral consregations all fulject to onc jurifdiction. The number of difciples in Jerufalem was ceriainly great befere they were difperfed by the perfecution ia which Paul bore fo active a part: yet they are never mentioned as forming diftinct affemblies, but as one affembly meeting with its elders in one place; fonctimes in the temple, fometimes in Solomon's porch, and fometimes in an upper room. After the difnerfion, the difciples who fled from Jerufalem, as they could no lonser aflemble in one place, are never calleat a church by themfelves, or one church, but the churches of Judea, Samaria, and Galilee, (Acis ix. 3r. Gal. i. 22.) Whence the Independent concludes, that in Jerufalem the words church and congregation were of the lame impost; and if fuch was the cafe there, where the gofpel was firlt preached, he thinks we may reafonably cxpect to find it to in other places. Thus when Paui on his journey calls the elders of the church of Ephefus to Miletus, he fpeaks to them as the joint overfeess of a fingle congregation: "Take heed to yourfelves, and to all the tock, over which the Holy Gholt hath made you overfeers," (Acts x.. 28.). Had the church at Fphefus confifed of different congregations united under fuch a juifdiation as that of a modern prefoytery, it would have been natural to fay, "Talse heed to yourfelves, and to the flocks over which the Holy Ghott hath made you overfecrs." but this is a way of fpeaking of which the Independent finds not an in-
funce in the whole New Teftament. The facied Incmend writers, when fyeal:ing of all the Chribians in a nation or province, never call them the church of fuch a nation or province, but the churches of Galatia (Gal. i. 2.), the charches of Macedonia (2 Cor. viii. 1.), lise churches of Alia ( Cor. sui. Jo.) On the uther hand, when fpeaking of the difciples in a city or town, who might ordinarily affemble in one place. they unitormly call them a church; laying, the chanch of A:wiont. the church at Corinth, the charch of Ephe.ti, and the like.

In each of thele churches or congregations there !n each ${ }^{7}$ were eliers or prefbytcrs and dacoms; and in every church conateg io there feems to have beea more than one elder, in fome a great many, who all "laboured in word and ciactrine." Thus we rcari (Lets xiv. 23.) of Paul and Wher or Barnabas ordaining elde; in every church: and (Act wher xx. 17.) of a company of elders in the church of Ephefus, is to teach who were eshorted to "feat the thock, and to take: heed to themetues and to all the tlock over which the Holy Ghoft had made them overleers:" but of fech elders as are to be found in modern prefuyterian churches. who neither teach nor are apt to teach, the Independont finds no vellise in the Scriptures, ner in the earlieft uninfpired writers of the Chrifian chercis. The rule or government of this prefbytery or elder!lap in a church is not their omm, but Chrit's. Ther are not lords over God's heritage, nor can they pretend to more power over the diaciples than the apollles had. But when the adminituation of the apoitles in the churels of Jerufalcm, and other churches where they acted as elders, is inquired into by an Independent, is does no: appear to him that they did any thing of common concern to the church without the confent of the multitude; nay, it feems they thought it neceffary to judge and determine in difcipline in prefence of the whole church (AAts vi. 1-6. xv. 22. 1 Cor. …3, 4, 5.) Sexcommunication and abfolution were in the power of the clurch at Coninth, and not of the elders as diltin- Excommu guifhed from the congregation ( 1 Cor. $\mathrm{r}_{\mathrm{g}} 2$ Cor. ii.) The apoflc indeed fpeaks of his delivering fome unto Satan (1 Tim. i. 20.): but it is by no means clear that he did it by himelf, and not after the mamer pointed at Cor. v. 4, 5 ; even as it does appear, from his fay each coning, in one epille, that the gift was given unto Timothy by the putting on of his hands, that this was not done in the prefoytery of a church, as in the other epittle we find it actually was. The trying and judging of falfe apontles was a matter of the firf importance: but it was done by the elders with the flock at Ephefus (Rer. ii. 2. Acts x.. 28.) ; and that whole flock did in the days of Ignatius all partake of the Lord's fupper, and pray together in one (B) place. Even the power of binding and loofing, or the power of the keys,
(B) The eridence upon which this is faid by Mr Glats (for the whole of this reafoning is cxtraeied from his
 reorsur", "For if the prayer of one or two be of fuch force as we are iold, how much more prevalent nuft tl at be which is made by the bilhop and the whole church? He then that does not come together into the fane place with it, is proud, and hath condemned himfelf; for it is written, God refitteth the proud. Let us not therefure relif the bilhop, that we may be the fervants of God." The fentence, as it thus ftands by itfelf, certainly courtenances Mr Glafs's fchene; but the "eneler who thinks any regard due to the teftimony of Ignatius, will do well to perule the whole cpille as publified by Voflus.

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?onord as it las been called, was !: ?u! Saviour conferred not upon a particuiar order of difcinles, but upon the ciurch: "If thy borither thall trefpafs acainit thee, go and tell 'im his fault beween thee and him alone: if he iball hear thee, thou hat gained thy brother. But if he will not har thee, then take with thee one or two more, that in the mouth of one or two witnefies every word may be eftaolihed. And if he thall neglect to hear them, tell it unto the church: but if he neglect to hear the church, let him be unto thee as an heathen man and a pu'slican. Verily I fay unto you, whatfoever ye fhall bind on earth, ilaall be bound," \&c. (St Mat. sviii. 15, 16, 17, 18.). It is not faid, if he tha:'l neglect to hear the one or two, tell it to the elders of the church; far le?s can it be meant that the offended perfon thould tell the caufe of his offence to all the dificiples in a prefbytery or diocefe confifting of many congregations: but he is required to tell it to that particular church or congregation to which they oth belong; and the fentence of that affembly, pronounced by its elders, is in a very folemn manner declared to be final, from which there lies no appeal to any juridiction on earth.
ivith refpect to the conflituting of elders in any church or congregation, the Independent reafons in the following manner: 'The officers of Chrill's appointment are either ordinary and permanent in the church, or they were estraordiaary and peculiar to the planting of Chrifianity. The extraordinary were thofe who were employed in laying the plan of the gofpel churches, and in publihing the New leitament revelation. Such were the apofties, the chofen witneffes of our Saviour's refurrection; fuch were the prophets infpired by the Holy Ghoft for expraining infallibly the Old Teftament by the things written in the Ness; and fuch were the evangelifts, the apoftles minilers. Thefe can be fucceeded by none in that which was peculiar to them, becaufe their work was completed by themfelves. But they are fucceeded in all that was not peculiar to them by elders and deacons, the only two ordinary and perr:anent ercers of minifters in the church. We have atready feen, that it belongs to the office of the elder to feed the flock of Chrift : and the only queition to be feitled js, ho: men are ordinarily called to that office? for about the office of the deacon there is little or no difute. No man now can pretend to be fo ralled of God to the mininty of the word as the apofiles and other infpired elders were, whom he chofe to be the publithers of his revealed truth, and to whofe miffion lye bore witnefs in an estraordinary manner. But what the apoftles were to thofe who had the divine oracles from their mouths, that their writings are to us ; and therefore as no man can lawfully pretend a call from God to make any addition to thole writings, iu neither can any man pretend to be lakfully called to the misiliry of the word already written but in the manner which that word directs. Now there is nothing of which the Ne:v J'eltament $\oint_{\text {peat:s mure clear- }}$

- ly than of the charackers of thofe who mould exercife the oflice of elders in the church, and of the actual exercife of that uffice. The former are graphically drawn in the epitles to Timothy and Titus; and the latter is minutely defcribed in Paul's difcourfe to the Ephefan ciders, in Peter's exhortation to elders, atid our Lord's commition to thofe miniltere, with ;hom he promifed
to be always prefent even unto the end of the world. It is not competent for any man or hody of men to add to, or diminith from, the defcription of a gofpel minitler given in thefe places, fo as to inflill upon the necellity of any qualification which is not there mentioned, or to difpenfe with any qualification as needlefs which is there required. Neither has Jefus Chrit, Arguments the only legiflator to the church, given to any mini-ayainft the fters or people any power or right whatioever to call, enisacy of fend, elect, or ordain, to that office any perfon who is every kind not qualified according to the defcription given in his of ninitelaw ; nor has he given ans power or righe to rejeft the rial ordina. leall of them who are fo qualified, and who defire the office of a bithop or elder. Let a man have hands laid upon him by fuch as could prove an uninterrupied defcent by impofition of hands from the apottles; let him be fet apart to that office by a company of miniters themfelves, the moft conformable to the feripture character, and let him be chofen by the moit holy people on earth; yet if lee anfwer not the New Teitament defcription of a minilter, he is not called of God to that oflice, and is no minifter of Chrit, but is indeed rumning unlent. No form of ordination can pretend to fuch a clear foundation in the New' Nellament as the defcription of the perfons who fhould be elders of the chureh; and the laying on of hands, whether by bifhops or prefbyters, is of no more importance in the miltion of a miniter of Chrift, than the waving of one's hand in the air or the putting of it into his boform; for now when the power of miracles has ceafed, it is obvious that fuch a rite, by whomfinever performed, can convey no porrers, whether ordinary or extraordinary. Indeed it appears to have been fometimes ufed, even in the apololic age, without any fueh intention. When Paul and Parnabas were feparated to the particular employment of going out to the Gentiles, the pruphets and teachers at Autioch "prayed and laid their hands on them :" But did this ceremony confer upon the two apo凡les any new power or authority to act as miniters of Chrift ? Did the impoition of hands make thofe flining lights of the gofpel one whit better qualified than they were before to convert and baptize the nations, to feed the flock of God, to teach, rebuke, or exhort, with all long-fuffering and doctrine. It cannot be pretended. Paul and Barnabas had undoubtedly received the Holy Ghol before they came to Antioch; and as they were apofles, they were of courfe authorized to difcharge all the functions of the inferior and ordinary minifters of the gofpel. In a word, whoever in his life and converfation is conformable to the character which the infpired writers give of a bifhop or elder, and is likewife qualified by his "mightinefs in the fcripture" to difcharge the duties of that office, is fully authorized to adminifter the facraments of baptifm and the Lord's fupper, to teach, and even exhort, and rebuke, with all long-fuffering and duc-agan the trine, and has all the call and miltion which the Lord" ceaty of now gives to any man; whilf he who wants the qua- all war lifications mentioned, has not God's call, whatever ${ }^{\text {call }}$ he may have, nor any authority to preach the gofpel of Chrint, or to difpenfe the ordinances of his religion.

From this view of the Indepondent principles, which is faithfully taken from their own writers, it appears, that, accorfing to them, even the elestion of a congre-

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Indopenl- pation confers upon the man whom they may choofe ents for their paftor no new powers, but only creates a nitw 11 relation betwion him and a patticular flock, giving $\underbrace{\text { inder. }}$ him an exclufive right, either by himfelf or in con-

The firft catalogues of this kind were made by the inquiftors: and thefe were aftersards approved of by the council of Trent, after fonse aiteration was made in thens by way of retrer.chment or addition. Thes an index of teretical books being !ormed, it was confirmed by a bull of Clement Cllif, in 1595 , and printed with leveral introductory rules; by the fuerth of which, the ufe of the Scriptues in the rulgar tongue is forbidden to all perfons without a particular licer:ce ; and by the tenth rule it is ortained, that no book fhan 11 be printed at Rome without the approbation of the Pope's vicar, or fome perfon delegated by the Pope ; nor in any other places, unlels allowed by the bithop of the diocefe, or fome perfon deputed :y him, or by the inquifitor of heretical pravity.

The Trent index being thes publifhed, Philip 11. of Spain ordered another to be printed at Antwerf, in $\mathbf{1 5 7 1}$, with confiderable enlargements. Another index was publihed in Spain $1 ; 84$; a cony of which was fnatched out of the fire when the Englith plun dered Cadiz. Afterwards there were leveral expurgatory indexes printed at Rome and Naples, and particu larly in Spain.

INDIA. See Hindostay- By the name of $I \%$ dia the ancients underftood only the weftern peninfula, on this fide the Ganges, and the peninfula beyond it, having little or no knowledge of the countries whicts lie farther to the eaftward ; though by the moderns all thofe vaft tracts from the eattert parts of the Perfian erapire to the illands of Japan, are confounded under the general name of Eaff Indies. Even the ancients, though originally they were acquainted only with the weftern parts of Hindoitan, gradually extended the name of India over the other countries they difcovered to the eattward; fo that probably they would have involved all the reft in the fame general defignation, had they been as well acquainted with them as the moderns are. By whom thefe countries were originally peopled, is a queftion which in all probability will never be refolved. Certain it is, that fome works in thefe parts difcover narks of attonifhing ikill and power in the inhabitants, fuch as the images in the ifland of Elephanta; the rocking itones of immenfe weight, yet fo nicely balanced that a man can move them with his hand; the obfervatory at Benares, \&c. Thefe ftunendous works are by Mr Bryant attributed to the Cullites or Babylonians, the firit ditinct nation in the world, and who of confequence mult for fome time have pofiefled in a manner the fovereignty of the whole earth; and it can by no meanss appear improbable, that the fubjects of Nimrod, the beginning of whole kingdom was in Shinar, might estend themfclyes eaRurard, and thus fill the fertile regions of the eaft with inhabitants, without thinking it worth while for a long time to meddle with the lefs mild and rich countries to the weftward. Thus Why the would be formed that great and for lome time infu-Indians at perable divition betwixt the inhabitants of $\ln$ dia and weftern $n$ other countries; fo that the weftern nations knew not even of the exiftence of the Indians but by obfcure ignorant report; while the latter, ignorant of their own ori-ther. gin, invented a thoufard idle tales concerning the antiquity of their nation, which fome of the mederns have been credulous enough to believe ard regard as facts.

The fret among the weftern nations who diftinguilhjuaction with other pafors conillituted in the fame marner to exercife among them that authority which he derives immediately from Chrif, and which in a Eseater or lefs degrec is poffefled by every lincere Chriftian arcording to his gifte and alsilitites. Were the miniters of the gofpel conflituted in any other way than this; by impoition of hands, for inftance, in fucceffion from the apofles; the cafe of Chriltians would, in the opinition of the Independents, be extremely hard, and the ways of God fearcely equal. We are ilrictly commanded not to forlake the affembling of ourfelves together, but to continue Itedfall in the apoftcs doctrine and fellowhip, and in the breaking of bread, and in prayer: "but can any man (aiks one of their ad. vocates) bring himfelf to believe, that what he is commanded to do in point of gratitude, what is made his own perfonal act, an act exprefive of certain dutiful and pious affections, can poffibly be reftricted to the intermediate othices or inftrumentality of others, who at by powers which he can neither give nor take away? To fuppofe a thing neceffary to my lappinets, which is not in my own power, or wholly depends upon the good pleafure of another, over whom 1 have no authority, and concerning whofe intentions and difpolitions I can have no fecurity, is to luppofe a conftitution the moft foolifh and ill-natured, utterly inconfiftent with our ideas of a wife and good agent." Such are fome of the principal arguments by which the Independents maintain the divine right of congregational churches, and the inefficacy of minilerial ordination to conflitute a minilter of Chrit. We mean not to remark upon them, as the reader will find different conflitutions of the church pleaded for under the words Presbiterians and Episcopacy, to which we refer him for farther fatisfaction. We fhall only oblerve at prefent, what it would be affectation to pals unnoticed, that the mode of reafoning adopted by the laft quoted advocate for the Independents, if puthed as far as it will go, neceflarily leads to confequences which will not readily be admitted by a Chriftian of any denomination, or indeed by a ferious and couffiftent Theit.

INDETERMINATE, in general, an appellation given to whatever is not certain, fixed, and limited; in which fenfe it is the fame with indefnite.

INDEX, in Anatomy, denotes the fore-finger. It is thus called from indico, "I point or direct;" becaufe that finger is generally fo ufed: whence alfo the extenfor indicis is called indicater.

Indfx, in Arithmetic and Algelra, fhows to what power any quantity is involved, and is otherwile called its cxponen:- See Algebra.

InDEX of a Book, is that part annexed to a book, referring to the particular matter or paflages therein contained.

Indsx of a Globe, is a little ftyle fitted on to the noth pole, and turning round with it, pointing to certain divilions in the hour-circle. It is fometimes alfo calied gnomon. See Grobe.

Expurgatory Index, a catalogue of prohibited books in the cliurch of Rome.

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## I N D [ I 8 ; $]$

 his conquer, 1 on related; but the learned Dr Robertfon, in his Difquiftion concerning ancient India, declares himfelf in doubt whether any fuct expedition ever was made, for the following reafons. 1. Few hiftorical facts feem to be better eftabiified than that of the averlion the Egyptians entertained to feafaring people and naval affairs ; and the Doctor confiders it as impolible even for the moft powerful monarch to change in a few years a national habit confimed by time and fanctified by religion. The very magnitude of the armaments is an argument againt their exiftence; for befides the 400 thips of war, he had anuther flect in the Mediterranean; and fuch a mighty navy could not have been conftructed in any nation unaccuitomed to maritime affairs, in a few years. 2. Herodotus makes no mention of the congquelts of India by Sefoftris, though he relates his hiftory at forme length. Our author is of opinion that the liory was fabricated betwixt the time of Herodotus and that of Diodorus Sicalus, from whom we have the firl account of this eapedition. Diodorus himfelf informs us that he had it from the Egyptian prielts: and gives it as his opinion, that "many things they related flowed rather from a defire to promote the honour of their country than from attention to truth :" and he takes notice that both the Egyptian priefts and Greek writers differ widely from one another in the accounts which they give of the actions of Sefultris. 3. Though Diodorus declares that he has felected the mof probable parts of the Egyptian narrative, yet there are ftill fo many improbabilities, or rather impoffibilities, contained in his relation, that we cannot by any means give credit to it. 4. For the reafon jutt mentioned, the judicious geographer Strabo rejected the accennt altogether, and ranks the exploits of Sefoftris in India with the fabolous ones of Bacchus an! Hercules.But whatever may be determined with regard to the Egyptians, it is certain that the Tyrians kept up a conftan: intercourfe with fome parts of India by navigating the Arahian gulf, now the Red fea. Of this navigation they became matters by taking from the

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Idumeans fome maritime places on the coan of the Red fea: but as the diftance betwixt the meares place of that fea and lyyre was uill confiderable, the laridcarriage would have heen very tedious and expenive; for which reafon it wat neceffary to become maters of a fort on the caftern part of $t$ c Mediter:ancan, nearer to the Red fea than Tyre, that fo the goods might be fhipped from thence to Tyre itielf. With this view they took polfifion or Rhimelura, the neareis port on the Mediterranean to the Arabian gulf ; and to that port all the goods from India were conveyed by a much morter and lefs expenfive route than over land.-This is the nril authentic account of any intercourfe tetwixt India and the weltorn part of the world; and to this we are ivithout doubt in a great meafire to afcribe the valt wealth and power for which the city of Tyre was anciently renowned; fur in other refpects the whole territory of Phenicia was but of little confequence. Notwithftanding the frequency of thefe royages, however, the ancients are able to give little or no account of them. The moft articular defcription we have of the wealth, power, and commerce of ancient Tyre, is in the prophecies of Ezekiel; fo that if the Tyrians themfelves kept any journals of their royages, it is probable that they were entirely loft when the city was deftrored by Alexander the Great.

Though the Jews, under the reign of David and So- The Jews lomon, carried on an extenfive and lucrative commerce, did not viyet our author is of opinion that they did not trade to ${ }^{\text {fir Inda. }}$ any part of India. There are only two places mentioned to which their fhips failed, viz. Ophir and Tarthith; both of which are now fuppofed to have been fituated on the eaftern coalt of $\dot{A}$ frica : the ancient Tarhilh, according to MIr Bruce, was the prefent Mocha; and Ophir the kingdom of Sofala, fo remarkable in former times for its mines, that it was called by Oriental writers the golden Sofala *.

Thus the Indians continued for a long time unknown anis $\mathcal{T}_{\text {are }}$ to the weftern nations, and undifturbed by them; pro- filfo $^{\text {. }}$ bably in fubjection to the mighty empire of Babylon, from which the country was originally peopled, or in alliance with it ; and the pofleffion of this ratt region will eafily account for the immenfe and otherwife al. moft incredible wealth and power of the ancient Babylonifh monarchs. Soon after the deftruction of that Conquefts monarchy by the Perfians, however, we find their mo- of the Per. narch Darius Hyftafpes undertaking an expeditionfians in inagainft the Indians*. His conquefts were not exten- ${ }^{\text {d }}$. five, as ther did not reach beyond the territory watered ${ }^{\dagger \cdots}$. Hin $^{\circ}$ by the Indus; neverthelefs, fuch as they were, the acquitition feems to have been very important, as the revenue derived from the conquered territory, according to Herodotus, was near a third of that of the whole Perfian empire. According to his account, however, we mult form a much more diminative opinion of the riches of the Perfian monarch than has commonly been done; fince Herodotus tells us, that the empite was divided into 20 fatrapies or governments; all of which A a
yielded
(A) This muft not be confounded with the Red fa, notwithftanding the fimilarity of names. The Erybhrean fea isac that nart of the ocean which is interpofed betwixt the ftraits of Babelmandel and the Malabar coalt, now called the Indian Sea or ocean.

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Iodia. vieldec a revenue of 14.560 Eubuic talents, amounting i:1 the whole to $2,807,437$ l. Aterling. The amount of the revenue from the conquered provinces of India therefore muft have been confiderably mort of a million. Very little knowledge of the country was diffufed by the expedition of Darius, or the voyage of Scylax whom he employed to explore the coaft; for the Greeks paid no regard to the tranfactions of thofe whom they called Barbarians; and as for Scylax himfelf, he told fo many incredible flories in the account he gave of his voyage, that he had the misfortune to be difelieved in almoft every thing, whether true or

Of Alexari. der the Great.

The expedition of Alexander is fo fully taken notice of under the article Hindostan, that nothing more re-
mains to be faid upon it in this place, than that he went no farther into the country than the prefent territory of the Panjab, all of which he did not traverfe. Its fouth-welt boundary is formed by a river anciently called the Hufudrus, now the Setlege. The breadth of the diltr: 5 from Ludhana on the Setlege, to Attock on the Indus, is computed to be 259 geographical miles in a ftraight line ; and Alexander's march, computed in the fame manner, did not exceed 200 ; neverthelefs, by the fpreading of his numerous army over the country, and the exach meafurement and delineation of all his movements by men of fcience whom he employed, a very extenfive knowledge of the weftern fart of India was obtained. It is, however, furprifing, that having marched through fo many countries in the neighbourhood of Incia, where the people muft have been well acquainted with the nature of the climate, the Macedonian conqueror did not receive any information concerning the difficulties he would meet with from the rains which fell periodically at a certain feafon of the year. It was the extreme diftrefs occafoned by them which made his foldiers finally refolve to proceed no farther; and no wonder indeed that they did adopt this refolution, fince Diodorus informs us, that it had rained inceffantly for 70 days before their departure. Thefe rains, however, according to the teftimony both of ancient and modern writers, fall unly in the mountainous parts, little or none being ever feen in the plains. Ariftobulus informs us, that in the country through which Alexander marched, though heavy rairs fcll among the mountains, not a fhower was feen in the plains below. The diffict is now feldom vifited by Europeans; but Major Rennel was informed by a perfon of credit, who had refided in the Panjab, that during great part of the S. W. monfoon, or at leaft in the montis July, Augult, and part of Seftember, which is the rainy feafon in mof other parts of India, very little rain falls in the Delta of the Indies, except very near the fea, though the atmofphere is generally clouded, and very few fhowers fall throughout the whole feafon. Captain Hamilton relates, that when he vifited Tatta, no rain had fallen there for three years before. We may have forme idea of what the Macedonians fuffered by what happened afterwards to Nadir Shah, who, though poffeffed of waft wealth and power, as well as great experience in military affairs, yet loft a g:ent part of his army in crofning the mountains and rivers of the Panjab, and in batiles with the favage inhabitants who inlabit the countrics betwist the Oxus and the frontiers of Perfia. He marched
through the fame countries, and nearly in the fame direction, that Alexander did.

By his royage down the river Indus, Alexander contributed much more to enlarge our geographical knowledge of India than by all his marches and conquefts by land. According to Major Rennel, the fpace of country through which he failed on the Indus, from the Hyphafis to the ocean, was not lefs than toco miles; and as, during the whole of that navigation, he obliged the nations on both fides the river to fubmit to him, we may be very certain that the country on each fide was explored to fome ditance. An exact account not only of his military operations, but of every thing worthy of notice relating to the countries through which he paffed, was prefersed in the journals of his three officers, Lagus, Nearchus and Ariftobulus; and thefe journals, Arrian informs us, he followed in the compofition of his hiltory. From thefe authors we learn, that in the time of Alexander, the weftern part of that vaft tract named India was poffeffed by feven very powerful monarchs. The territory of King Porus, which Alexander firf conquesed, and then refored to him, is faid to have contained no fewer than 2000 towns; and the king of the Prafii had affembled an army of 20,000 cavalry, 2000 atmed chariots, and a great number of elephants, to oppofe the Macedonian monarch on the banks of the Ganges. The navigable rivers with which the Panjab country abounds, afiurded then, and ftill continue to afford, an intercourfe from one part to another by water: and as at that time thefe rivers bad probably many fhips on them for the purpofes of commerce, Alexander might eafily colle $\{$ all the number he is faid to have had, viz. 2000; lince it is reported that Semiramis was oppofed by double thee number on the Indus when the invaded Irdia. When Mahmud Gaqni alfo insaded this country, a fleet was collected upon the Indus to oppofe him, confilting of the fame number of veifels. From the Ayeen Akbery, alfo, we learn that the inhabitants of this part of India fill continse to carry on all their communication with each other by water; and the inhabitants of the circar of 'Iatta alone have 40,000 veffels of various conflruftions.

Under the article Hindostan we have mentioned Why Alex Major Rennel's opinion concerning the filence of Alex- a del's thi: ander's hiftorians about the expedition of Scylax; but terianstak Dr Robertfon accounts for it in another manner. "It the royage is remarkable (fays he), that neither Nearchus, nor of Scylax. Ptolemy, nor Ariflobulus, nor even Arrian, once mention the royage of Scylax. This could not proceed from their being unacquainted with it, for Herodotus was a favourite autlior in the hands of every Gicek who had any pretenfions to literature. It was probably occafioned by the reafons they had to diftrult the veracity of Scylax, of which I have already taken notice. Accordingly, in a fpeech which Arrian puts in the mouth of Alexander, he afferts, that, except Bacchus, he was the firf who had paffed the Indus; which implies that he difbelieved what is related concer irg Scylax, and was not acquainted with what Darius Hyllafpes is faid to have done in order to fubject that part of India to the Perfian crown. This opinion is confirmed by Megaflienes, who refided a conficerable time in India. He aflerts that, eacept Bacchus and Hercules (to whofe fabulous expeditions Strabn is aftonimed

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India.
trasy to the opinion of Major Rennel, who fuppoles it to be Patna. * As Megathenes refided in this city for a confiderable fpace of time, he had an opportunity of making many obfervations on the country of India in general ; and thefe obfervations he was induced afterwards to publiti. Unhappily, however, he mingled with his relations the noit extravagant fables. To him may be traced the ridiculous accounts of men with ears fo large that they could wrap themfelves up in them; of tribes with one eye. without mouths or nofes, \&c. whence the extrants from his book given by Arrian, Diodorus, and other ancient writers, can foarcely be credited, unleís confirmed by other evidence.

After the embally of Mega!thenes to Sandracottus, and that of his fon Damaichus to Allitrechidas, the fucceffor of Sandracottus, we hear no more of the affairs of India with regard to the Macedonians, until the time of Antiochus the Great, who made a ihort incurlion into India about 197 years after the death of Seleucus. All that we know of this expedition is, that the Syrian monarch, after finifhing a war he carried on againt the two revolted provinces of Parthia and Bactria, entered India, where he obliged Sophagafenus, king of the country which he invaded, to pay a fum of money, and give him a number of elephants. It is probable that the fucceffors of Seleucus were obliged foon after his death to abandon all their ludian territories.

After the lofs of India by the Syrians, an intercourfe was kept up for fome time betwist it and the Greek kingdom of Bactria. This laft became an independent ftate about 69 years after the death of Alexander; and, according to the few hints we have concerning it in ancient authors, carried on a great traffic with India. Nay, the Bactrian monarchs are fand to have conquered more extenfive tracts in that region than Alexander himfelf had done. Six priaces reigned over this new kingdom in fucceffion; fome of whom, clated with the conquefts they had made and the power they had acquired, allumed the title of Grear King, by which the Perfian monarchs were diftinguithed in their highelt fplendour. Strabo informs us, that the Bactrian princes were deprived of their tervitories by the Scythian Nomades, who came from the country beyond the Jaxartes, and were known by the names of Afii, Pariani, Tachari, and Scarauli. 'This is confirmed by the teftimony of fome Chinele hifterians quated by M. de Guignes. According to them, about 126 years before the Chrifian era, a porrerful borde of Tartars, pufhed from their native feats on the confines of China, and obliged to move farther to the weft, paffed the【axartes, and, pouring in upon Bactria like an irrefitible torrent, overwhelmed that kingdom, and put an end to the dominion of the Greeks after it had lafted near

From this time to the clofe of the 1 gth century, all thoughts of eftablihing any dominion in India were totally abandoned by the Euro-cans. The only object now was to promote a commerial intercourfe witl that country: and Egypt was the medium by which that intercourfe was to be promoteil. Ponlemy the fon of Lagus, and firft king of Egypt, firit raifed the piwer and fplendour of A!exandia, which he knew had been buitt $L y$ Alexinder with a view to carry on a trade to India : and in order to make the navigation

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more fecure, he built the celebrated light-houfe at Pharos; a work fo magnificent as to be reckoned one of the wonders of the world. His fon Ptolemy Philadelphus profecuted the fame plan very vigoroutly. In his time the Indian commerce once more began to centre in Tyre; but to remove it effectually from thence, he formed a canal between Arfinoe on the Red fea, not far from the place where Suez now ftand, and the Pelufiac or eaitern branch of the Nile. 'Iluis canal was 100 cubits broad and 30 deep; fo that by means of it the procuctions of India might have been conveved to Alexandria entirely by water. We know not whether this work was ever finined, or whether it was found ufelefs on account of the dangerous navigation towards the northern extremity of the Red fea; but whatever was the caufe, it is certain that no ufe was made of it, and a new city named Berenice, fituated alnoft under the tropic, upon the weltern fhore of the Red fea, became the itaple of Indian commerce. From thence the goods were tranfported by land to Coptos, a city diftant only three miles from the Nile, to which it was joined by a navigable canal. Thu, however, there was a very tedious land carriage of no lefs tha: 258 Roman miles through the barren defért of The.. bais: but Ptolemy caufed diligent fearch to be made everywhere for fprings, and wherever thefe were found, he built inns or caravanferas for the accommodation of travellers; and thus the commerce with India was carried on till Egypt became fubject to the Romans. The fhips during this period fet fail from Berenice, and coafting along the Arabian flore to the promontory of Syagrus, now Cape Rafa!gate, held their courfe along the coalt of Perfia till they arrived at the mouth of the weftern branch of the river Indus. They either failed up this branch till they came to Pattala, now Tatta, fituated at the upper part of the Delta, or continued their courfe to fome other emporium on the weftern part of the Iudian coaft. A more convenient courfe was afterwards found by failing directly to Zizenis, a place concerning which there is now fome difpute. Monteffuieu will have it to be the kingdom of Sigertis, on the coast adjacent to the Indus, and which was conquered by the Bactrian monarchs; but Major Remnel is of opinion that it was a port on the Malabar coalf. Dr Robertfon does not preiend to decide this difpute; but is of opinion, that during the time of the Ptolemies very little progrefs was made in the difovery of India. He contefts the opinion of Major Rennel, that " under the Ptolemies the Egyptians extended their navigation to the extreme point of the Indian continent, and even failed up the Ganges to Palibothra, now Patna." In this cafe he thinks that the interior parts of India muft have been much better known to the ancients than we have any reafon to believe they were. He owns indeed that Strabo mentions the failing up the Ganges, but then it is only curforily and in a fingle fentence; "whereas if fuch a confiderable inland voyage of above 400 miles, through a populous and rich country, had been cultomary, or even if it had been eves ferformed by the Roman, Greek, or Egyptian traders, it muf have merited a particular defcription, and mult have been mentioned by Pliny, and other writcrs, as there was nothing fimilar to it in the practice of navigation among the ancients." -The extreme danger of navi-

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gating the Red fea in ancient times (which cren in the prefent improved fate of narigation is not entirely gut over) feems to have been the principal reafon which induced Ptolerny to remove the communication with India from Arfinoe to Berenice, as there were other harbours on the fame coalt confiderably nearer to the Nile. After the ruin of Coptos by the emperor Dinclefian, the Indian commodities were conveyed from the Red fea to the Nile from Cafeir, fuppofed by Dr Robertfon to be the Plifuteras Portus of Ptolenny, to Cous, the Vicus Apallinus, a journey of four days. Hence Cous from a frall village became an opulent city; but in procefs of time, the trade from India removed from Cous to Kenè, farther down the river. In modern times tuch Indian goods as are brought by the Red fea come from Gidda to Suez, and are carried acrofs the ifthmus on camels, or brought by the caravan returning from the pilgrimage to Mecca.

It was to this monopoly of Indian commerce that Egypt owed its vaft wealth and power during the time of its Macedonian monarchs; but it appears fur. prifing that no attenpt was made by the Syrian monarchs to rival them in it, efpecially as the latter were in polletion of the Perfian gulf, from whence they might have imported the Indian commodities by a mucl fhorter navigation than could be done by the Egyptians. For this neglect feveral reafons are alligned by our learned author. 1. The Egyptians, under their Greck monarchs, applied themfelves to maritime afioirs; and were in poffeffion of fuch a porverful tieet as gave them a decided luperiority at fea. 2. No intercourle by fea was ever kept up betwist Perfia and India, on account of the arerfion which the Perfians had to maritime affairs. All the Indian commodities were then conveyed in the mott tedious and difficult manner uver land, and difperfed throughout the various provinces, partly by means of navigable rivers and partly by means of the Caipian fea. 3. Many of the ancients, by an unaccountable error in geograply, imagined the Cafoian fea to be a part of the great northern ocean; and thus the kings of Syria might hope to convey the Indian commodities to the European countries without attempting to navigate thofe feas which the Egyptian monarchs deemed their own property. Seleucus Nicator, the firlt and greateft of the Syro-Macedonian monarchs, formed a project of joining the Euxine and Cafpian feas by a navigable canal, which would have effectually anfwered the purpofe, but was affafinated before he could put it in execution, and none of his fucceffors had abilities to execute fuch an undertaking.Alexander the Great had given orders, a little before his death, to fit out a fquadron on the Cafpian fea, in order to difcover whether it had any communication with the northorn ocean, the Euxine fea, or Indian osean ; but Dr Robertfon jutly thinks it furprifing that fuch errors concerning this fea hould have exifted amung the ancients, as Herodotus had long before defrabed it properly in the following words: "The Cafpian is a fea by itfelf, unconnerted with any other. Its length is as much as a velfel with oars can fail in 15 days; and its greateit breadth as much as it can fail in eight days." Arittotle deferibes it in lihe manner, ard infifts that it ought to be called a grcat lake, and not a fea.

On the conqueft of Egypt by the Romans, the indian commodities continued as ufual to be imported to $\underbrace{}_{\text {is }}$ Alexandria in Egypt, and from thence to Rome; but intercourfe befides this, the mof ancient communication betwixt of the Rothe ealtern and weftern parts of Afia feems never to mans with have been entirely given up. Syria and Paleitine are ${ }^{\text {Id dia. }}$ feparated from Miefopotamia by a defert; but the paffage through it was much facilitated by its alfording a fation which abounded in rater. Hence the pofleffion of this flation became an object of fuch conlequence, that Solomon built upon it the city called in Syria Tadmor, and in Greek Palmyra. Both thefe names are exprellive of its fituation in a fpot adonned with palartrees. Though its fituation for trade may to us leem very unfavourable (being 60 miles from the Euphrates, by which alone it could receive the Indian commodities, and 203 from the neareft coalt ot the Mediterranean), yet the value and fmall bulk of the goods in queltion rendered the conveyance of thern by a long carriage over land not only practicable but lucrative and advantageous. Hence the inhabitants became opulent and powerful, and long maintained its independence even after the Syrian empire became fubject to Rome. After the reduction of Palmyra by the emperor Aure. lian, however, it did not any more recover its fplendor ; the trade gradually turned into other channels, and the city was reduced to ruins, which till exit, and manifeft irs former grandeur. See Palatyra.

The excellive eagemefs of the Romans for Afiatic luxuries of all kinds kept up an unceafing intercourfe with India during the whole time that the empire continued in its power; and even after the dellruction of the weftern part, it was kept up betwixt Contantin ople and thofe parts of India which had been vifited formerly by merchants from the weftern ernpire. Long before this period, however, a much better methud of failing to India had been difcovered by one Hippalus the commander of an Indian fhip, who lived about 80 years after Egypt had been annexed to the Roman empire. This man having obferved the periodical thiftiug of the monfoons, and low fteadily they blew from the eaft or weft during fome months, ventured to leave the coalt, and fail boldly acrofs the Indian ocean from the mouth of the Arabian gulf to Muliris, a port on the Malabar coalt ; which dilcovery wis reckoned a matter of fuch imporrance, that the name of Hippalus was given to the wind by which he performed the woyage. Pliny gives a very particular account of the manner in which the Indian traffic was now carricd on, mentioning the particular ftages, and the diftances between them, which are as follow. From Alexandria to Juliopolis was two miles; and there the cargo deltined for India was fhipped on the Nile, and carried to Coptos, diftant 303 miles, the voyage being ufually performed in twelve days. From Coptos they were conveyed by land to Berenice, diftant 258 miles, and halting at different ftations as occafion required. 'The juntrey ras finifted on the 12 th day; but by reafon of the heat the caravan travelled only in the night. The huips left Berenice about midfummer, and in 30 days reached Ocelis, now Gella, at the mouth of the Arabian gulf, or Cane (now Cape Eartaque) on the coall of Arabia Felix; from whence they failed in 40 days to Mufiris already mentioned. Their homeward voyzge began early in the month of December; when fetting inil

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witl a north-eaft wind, and mecting with a fouth or fouth-weft one when they entered the Arabian gulf, the royage was completed in lefs than a year. With reyard to the liteation of Mufiris, as well as of Barace, another Indian port to which the aucients traded, Major Rennel is of opinion, and Dr Robertfon agrees with him, that they ftood fomewhere between Goa and Tellicherry; and that probably the moder: Meerzaw or Merjec is the Mufiris, and Barcelore the Barace of the ancients.

1'tolemy, who flourified about 200 years after the commencement of the Chrilian era, having the advantage of fo many previous difcoveries, gives a more particular defcription of India than what is to be met with in any of the ancient writers; notwithltanding which, his accounts are frequently incontiltent not only with modern difcoveries, but with thofe of more ancient geographers than himfelf. A molt capital error in his geography is, that he makes the peninfula of India ftretch from the Sinus Barygazenus, or gulf of Cambay, from weft to ealt, initead of extending, according to its real direction, from north to fouth; and this error mult appear the more extraordinary, when we confider that Megafthenes had publifhed a meafurement of this peninfula nearly confonant to truth, which had been adopted with fome variations by Eratollhenes, Strabo, Diodorus Siculus, and Pliny. His information concerning the fituation of places, however, was much more accurate. With refpect to lome diftricts on the eaftern part of the peninfula, as far as the Ganges, he comes nearer the truth than in his defcriptions of any of the reft. Thefe are particularly pointed out by M. d'Anville, who has determined the modern names of many of Ptolemy's flations, as Kilkare, Negapatam, the mouth of the river Cauveri, Mafulipatam, \&c. The river Cauveri is the Chabaris of Ptolemy; the kingdom
 fon, the whole coaft has received its prefent name of Coromandel from Sor Mandulam, or the kingdom of Sorre, which is fituated upon it. Ptolemy had likewife acquired fo much knowledge concerning the river Ganges, that he defcribes fix of its mouths, though his delineation of that part of India which lies beyond the Ganges is hardly lefs erroneous than that of the nearer peninfula. M. d'Anville, however, bas been at great pains to elucidate thofe matters, and to illultrate thofe parts of the writings of Ptolemy which appear to be belt founded. According to him, the golden Cherfonefus of Ptolemy is the peninfula of Malacca; he fuppofes the gulf of Siam to be the great bay of Ptolemy, and the Sinx Metropolis of the fame writer he looks upon to be Sin-hoa in the weftern part of the kiagdom of Cochin-China, though Ptolemy has erred in its fituation no lefs than 50 degrees of longitude and 22 of latitude. M. Goffelin, however, differs from his countryman M. d'Anville, in a late work intitled "'The Gengraphy of the Greeks analyfed ; or the fyltems of Eratollhenes, Strabo, and Ptolemy, compared with each other, and with the knowledge which the moderns have acquired." In the oninion of M. Goffelin, the Magnum Promontorium of Ptolemy is not Cape Rammia at the fouthern extremity of the peninfula of Ma'acca, as M. d'Anville fuppofes, but the point Bragu, at the mouth of the river 4 va. The great bay of Ptolemy he fuprofes not to be the gulf of Siam, but of viartaban.

He enleavours to prove that the pofition of Cattipnara, as laid down by Ptolemy, correfponds with that of Mergui, a fea port on the weft of Siam; and that Thina, or Since Metrophis, is not Sin-hoa, but Tana-ferim, a city on the fame river with Mergui ; and he contends, that the Ibbadii infula of Ptolemy is not Sumatra, as D'Anville would bave it, but one of the finall ifles which lie in a clufter off this coaft. M. Goffelin is of opinion that the ancients never failed through the flraits of Malacea, nor had any knowledge of the illand of Sumatra, or of the eafteria ocean.

The errors of Ptolemy have given occafion to a miltake of more modern date, viz. that the ancients were acquainted with China. This arofe from the refemblance betwixt the name of that empire and the Since of the ancients. The Ayeen Akbery informs us, that Cheen was an ancient name of Pegu; whence, fays Dr Robertfon, " as that country borders upon Ava, where M. Goffelin places the great promontory, this near refemblance of names may appear perhaps to confirm his opinion that Simæ Metropolis was fituated on this coalt, and not fo far ealt as M. d'Anville has placed it."

Thus we fee that the peninfula of Malacca was in all Boundary probability the boundary of the ancient difcoveries by of the nafea; but by land they had correfpondence with coun- vigution tries itill farther diftant. While the Seleucidæ conti- of the an. nued to enjoy the empire of Syria, the trade with India continued to be carried on by land in the way already mentioned. The Romans having extended their dominions as far as the river Euphrates, found this method of conveyance ftill eftablilied, and the trade was by them encouraged and protected. The progrefs of the caravans being frequently interrupted by the Parthiass, particularly when they travelled towards thole countries where filk and other of the mofl valuable manufactures were procured, it thence became an object to the Romans to conciliate the friend!hip of the fovereigns of thofe diftant countries. That fuch an attempt was actually madc, we know from the Chinefe hiflorians, who tell us, that Antoun, by whom they mean the emperor Marcus Antoninus, the king of the people of the weltern ocean, fent an embaffy to Ounti, who reigned in China in the 166 th year of the Chriftian era; but though the fact is mentioned, we are left entirely in the dark as to the iffue of the negociations. It is certain, however, that during the times of the Romans fuch a trade was carried on; and as we cannot fuppofe all thofe who vifited that diffant region to be entirely deftitute of fcience, we may reafonably enough conclude, that by means of Come of thefe adventurers, Ptolemy was enabled to determine the fituation of many places which he has laid down in his gcography, and which correfpond very nearly with the obfervations of modern times.

With regard to the Indian illands, confidering the Few Indi little way they extended their navigation, they could flands di not be acquainted with many of them. The principal covered ? one was that of Cevlon, called by the ancients Tapro- cients. bane. The name was entirely urknown in Eurone before the time of Alevander the Great; but that conqueror, though he did not vifst, had fome how or other heard of it; with regard to any particulars, however, he feems to hase been very flenterly in ormed; and the accounts of ancient geographers concerning it are confufed
confufed and contradictory. Strabu fays, it is as large as Britain, and fituated at the diftance of leven days according to fome reports, or 20 days failing according to otners, from the fouthern extremity of the peninfula. Pomponius Mela is uncertain whether to conlider 「aprobane as an illand, or the beginning of another world; but inclines to the latter opinion, as nobody had ever failed round it. The account of Pliny is flill more obfcure; and by his defcription he would make us believe, that it was feated in the fouthern hemifphere beyond the tropic of Capricorn. Ptolemy places it oppolite to Cape Comorin, at no great dittance from the continent ; but errs greatly with regard to its magnitude, making it no lefs than 15 degrees in length frum north to fouth. And Agathemarus, who wrote after Ptolemy, makes Taprobane the largeft ifland in the wrorls, affigning the fecond place to Britain. From thefe difcordant accounts, fome learned men have fuppofed that the Taprobane of the ancients is not Ceylon, as is generally believed, but the ifland of Sumatra; though the defcription of it by Ptolemy, with the figure delineated in his maps, feerns to put it beyond a doubt, that Ceylon, and not Sumatra, is the ifland to which Ptolemy applies the defignation of 'Yaprobane. The other illands defcribed by that geographer to the eaftward of Taprobane, are, according to Dr Robertfon, thofe called Andoman and Nicobar in the gulf of Bengal.

From the time of Ptolemy to that of the emperor Juitinian, we have no account of any intercourfe of the Earopeans with India, or of any progrefs made in the geographical knowledge of the country. Under that emperor one Cormas, an Egyptian merchant, made fome voyages to India, whence he acquired the furname of Indicop!ctfes. Having afiewwards turned monk, he publithed fereral works; une of which, named Chrifian To,jograpley, has reached us. la this, though mixed with many frange reveries, he relates with great implicity and appearasee of truth what he had feen in his travels or had learned from others. He deferibes feveral places on the weftern coalt of the hither peninfula, which he calls the chief leat of the pepper-trade; and from one of the ports on that coait riamed Male, Dr Robertfon thinks that the name Maldbar may probably be derived, as well as that of Maldives given to a clufter of iflands lying at no great diftance. Cofmas informs us alfo, that in his time the illand of Taprobane had become a great ftaple of trade. He fuppofed it to lie about lalf way betwist the Perian gulf and the country of the Sine; in confequence of which commodious fituation it received the filk of the Sinx, and the precious fices of the remote regions of the eaft, which were from thence conveyed to all parts of India, Perfia, and the Arabian gulf. He calls it not Taprabane, hut Sieldibia, derived from Selendib, or Serendib, the fame by which it is fill known all over the eaft. From lim alfo we learn, that the Perfians having overthrown the empire of the Parthians, applied themfelses with great diligence and fuccefs to maritime affairs; in confequence of which they became formidable rivals to the Romans in the India trade. The latter finding themfelves thus in danerer of lofing entirely that lucrative bra:ch, partly by reafon of the rivalfhip ju? mentioned, and partly by reafon of the frequent hoftilities which took: place between the two empires,
formed a fcheme of preferving fome thare of the tiads by means of his ally the cinperor of Abymia. this he was difappointed, thougly aftermards he obtain-silk.worme ed his end in a way entirely mexpe¿ted. This was involnced by means of two moats who had been employed as mif- into Eufionaries in different parts of the eaft, and had pene-rope. trated as far as the country of the Seres or China. From thence, induced by the liberal promifes of Jufinian, they brought a quantity of the ezgs of the tiik. worms in a hollow cane. They were then hatched by the heat of a dunghill; and being fed with the leaves of the mulberry, worked and multiplied as well as in thofe countries of which they are natives. Valt numbers were foon reared in Greece; from whence they were exported to Sicily, and from thence to ltaly; in all which countries filk manufactures have fince been eftablifhed.

On the conqueft of Egypt by the Suracens in the Intercourfe year 640 , the India trade was of courfe transferred to of the Sara. them; and they foon began to purfue it with much cens with more vigour than the Romans had done. The city of Baffora was built by the caliph Omar upon the weftern banks of the great river formed by the union of the Euphrates with the Tigris. 'Thus the command of both rivers was fecured, and the new city foon became a place of fuch confequence as fcarce to yield to Alexandria itfelf. Here Dr Robertfon talies notice, that from the evidence of an Arabian merchant who wroie in the year 85 I, it appears, that not only the Sa racens, but the Chinefe alfo, were deftitute of the ma-Chinefe igriners compafs; contrary to the general opinion, that thorart of this inftrument was known in the eaft long before it the ufe of made its appearance in Europe. From this relation, as ners comwell as much concurring evidence, fays our author, pais.
" it is manifeff, that not only the Arabians but the Chinefe were deltitute of this faithful guide, and that their mode of navigation was not more adventurous than that of the Greeks and Romans. They fleered fervilely along the coalt, feldom ftitching out to fea fo far as to lofe fight of land; and as they thaped their courfe in this timid manner, their mode of reckoning was defective, and liable to the fame errors with that of the Greeks and Romans." Notwithfanding this difadvantage, however, they penetrated far beyond Siam, which had fet bounds to the navigation of the Europeans. They became acquainted with Sumatra and other Indian illands; extending their navigation as far as the city of Canton in China. A regular commerce was now carried on from the Perfan gulf to all the countries lying betwist it and China, and even with Clina itfelf. Many Saracens fettled in India properly fo called, and in the countries beyond it. In the city of Canton particularly, they were fo mumerons, that the emperor permitted then to have'a cadi or judge of their own religion; the Arabian language was underftood and fpoken in every place of conlequence; and frips from China are even faid to have vifited the Perfian gulf.

According to the Arabian accounts of thofe days, St te of In. the peninfula of India was at that time divided into dia when four kingdoms. The firft was compoled of the pro-the Aravinces fituated on the Indus and its branches. the capi-brans. tal of which was Moultan. The fecond had the city of Canore, which, from the ruins of it remaining at this day, appears to have been a very large place. "The

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Indian hitarians relate, that it contained 30,000 thons in which betel nut was fold, and 60,000 lets of mulicians and lingers who paid a thes to government. The thire kingdon was that of Cachimere, firft mentioned by Mafloudi, who gives a fhant defription of it. The fourth kingdom, Guzerat, is reprefented by the fame author as the moit powerful of the whole. Another A sab writer, who flomithed about the middle of the tith contury, dividen lidia into three parts; the north(rin, comprehending all the provinces on the Indus; the mitille, extending from Guzerat to the Ganges; and the fouthern, which he denominates Comar, from Cape Comorin.

From the relation of the Arabian merchant above mentioned, eyplained by the commentary of another Arabian who had likewife vifited the eaftern parts of Atia, we learn many particulars concerning the inhabitants of thefe dittant regions at that time, whicla correfpond with what is obferved among them at this day. They take notice of the general ufe of lik among the Chinefe; and the manufacture of porcelain, which they compare to glafs. They alfo deficribe the tea plant, with the mamaer of uing its leaves; whence it appears, that in the ninth century the ufe of this plant in China was as common as it is at prefent. They mention likewife the great progrefs which the Indians had made in aftronomy; a circumftance which feens to have been unknown to the Greeks and Romans: they affert, that in this branch of fience the Indians were far fuperior to the moft ealightened nations of the weft, on which account their fovereign Wras called the "King of wiflom." The fuperfitions, extravagant penances, \&zc. known to exiff at this day among the Indians, are alfo mentioned by thofe writers; all which particulars manifent that the Arabians had a knowledge of India far fuperior to that of the Greeks or Romans. The zeal and induftry of the Mohammedans in exploring the moft. ditiant regions of the ealt was rivalled by the Chriftians of Perfia, who fent miffionaries all over India and the countries adjoining, as far as China itielf. But while the weftern Afiatics thes kept up a conflant intercourfe with thefe parts, the Europeans had in a manner loft all knowledge of them. The port of Alexandria, from which they had formerly been fupplied with the Indian goods, was now thut againit then; and the Arabs, fatisfied with fupplying the demands of their own fubjects, neglected to fend any by the ufual chamels to the
towns on the Mediterranean. The inlabitants of Conftantinople and fome other great towns were - fupplied with Chinefe commodities by the moft tedious and ditficult palfage imaginable. The filk of that country was purchafed in the moft welterly province named Chenfi; from whence it was conveyed by a caravan, which marched 80 or 100 days, to the banks of the Oxus. Here it was embarked, and carridd down the river to the Cafpian fea; whence, after a dangerous voyage acrofs that fea, it was carried up the river Cyrus as far as that river is navigable; after which it "as conducted by a land carriage of five days to the river Phatis, then down that fream into the Euxine, and thence to Conflantinople. The paffage of goods from Hindoftan was lefs tedious; they beines, carried eiti er direally to the Cafpian or to the siver Oxus, but by a palfage much fhorter than that
from China; after which thcy were conveyed down the lilatis to the Euxine, and thus to Contantinople.

It is evident that a conmerce thus carried on mult have been liable to a thoufand difadrantages. The gonds conveyed over fuch vaft tracts of land could not be fold but at a very high price, even fuppofing the journey had been attended with no danger; but as the caravans were continua:ly expofed to the aflaults of barbarians, it is evident that the price mult on that account have becn greatly enharced. In frite of every dificuity, however, even this commerce thourithed, and Conlantinople became a contiderabie mart for Ealt In dian commodities; aul from it all the ref of Furope was chietly fupplied with them for more than two cen. turies. The perpetual courfe of hotlilities in which the Chritians and Mohammedans were during this period engaged, contributed fitill to increafe the dithculty : and it is remarkable, that the more this ditliculty increaled, the more deffrous the Europeans Ceeme.? to be of polefing the luxuries of Atia.

About this time the cities of Amalphi and Venice, with lome others in Italy, having acquired a greater degree of independence than they formorly pififfifed, began firt to exert themfelves in promoting domelfic manufactures, and then to import the productions of India in much larger quantitics than formerly. Some traces of this resival of a commercial fpirit, according to Dr Roberton, may be obferved from the end of the feventh century. The circumfiances which ied to this revival, however, are catirely unnoticed by hiftorians; but during the feventh and eighth centuries, it is very probable that no commercial intercourfe whatever too: place betwixt ltaly and Alexandria; for, prior to the period we lipeak of, all the public deeds of the Italian and other cities of Europe had been written upon paper made of the Egyptian papyrus, but after that upon parchment.

The mutual antipathy which the Chriftians and Mohammedans bore againft each other, would no doubt for a long time retard the progrefs of commerce between them; but at latt the caliphs, perceiving the advantage which fuch a traffic would be of to their fubjects, were induced to allow it, while the eagernefs with which the Chrillians coveted the Indian products and manufactures, prompted them to carry it on. But Efeet of fcarce was the traftic begun, when it fecmed in danger the cuuof being totally interrupted by the crulades. Not- the India withilanding the enthufiaftical zeal of thefe adventur-comnare ers, however, there were many to whom commerce was a greater object than religion. This had always been the cafe with numbers of the pilgrims who vifited the holy places at Jerufalem even before the commencement of the crufades: but thefe, after they took place, inftead of retarding the progrefs of this kind of commerce, proved the means of promoting it to a great degree. "Various circumfances (fays Dr Robertforn) concurred towards this. Great armies, conducted by the moft illuftrious nobles of Europe, and compofed of men of the motl enterprifing fipitit in all the kingdoms of it, marchod towards Paleftine, through countries far advanced beyond thofe which they lefi in evcry fpecies of improvement. They beheld the dawn of profiperity in the republics of Italy, whices had thegun to vie with each other in the arts of induftry, and in their eflorts to engrofs the lucrative commerce "irh

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the eaf. They next admired the more advanced llate of opulence and fplendor in Conftantinople, raifed to a pre-eminence above all cities then known by its extenfive trade, particularly that which it carried on with India and the countrics beyond it. They aftervards ferved in thofe provinces of Afia through which the commodities of the ealt were ufually conveyed, and became malters of feveral cities which had been itaples of that trade. They eftabliffed the kingdom of Jesufalem, which fubitled near 200 yeat .. They took poileffion of the throne of the Greek empire, and governed it about half a century. Amidft fuch a variety of events and operations, the ideas of the fierce warriors of Europe gradually opened and inproved; they became arquainted with the policy and arts of the people whom they fubdued: they obferved the fources of their wealth, and availed themfelves of all this knowledge. Antioch and Tyre, when conquered by the cruladers, were flourilhing cities, inhabited by opulent merchants, who fupplied all the nations trading in the Mediterranean with the productions of the eaft; and, as far as can be gathered from incidental occurrences mentioned by the hiltorians of the holy war, who being mofly priefts and monks, had their attention directed to objects very different from thofe relating to commerce, there is reafon to believe, that both in Connantinople while fubject to the Franks, and in the ports of Syria acquired by the Chriftians, the long-eftablined trade with the ealt continued to be proteeted and encouraged."

Our author next goes on to fhow in what mamer the commerce of the ltalian flates was promoted by the crufades, until at laft, having entirely engrofied the Eaft India trade, they flrove with fuch eagernefs to find new markets for their commodities, that they extended a talte for them to many parts of Europe where they had formerly been little known. The riwalhip of the Italian ftates terminated at laft in a treaty with the fultan of Egyp: in 1425, by which the port of Alexandria and others in Egypt were opened to the Florentines as well as the Venetians; and foon after, that people began to obtain a thare in the trade to India.

The following account of the manner in which the India trade was carried on in the begimning of the 14 th century, is given by Marino Sanudo a Venetian nobleman. The merclaits of that republic were fupplied with the commodities they wanted in two different ways. Thofe of fmall bulk and great valuc, fuch as cloves, nutmegs, gems, pearls, \&c. were carried up the Perfian guif to Baffora, from thence to Bagdad, and afterwards to fume port on the Mediterranean. The more bolky goode, fuch as pepper, cimamon, and other fpiceries, were brought in the ufual manner to the Red fea, and from thence to Alexandria. The goods brcuglit by land, however, were always liable io be Seized by barbarians; and therefure the fupply that way was fcanty, and the price extrav-gontly dear, whit, on the cther hand, the fultan of Egyp:, by inpoling duties upon the Eaf India cargoes to the nmount of a full third of the value, feemed to render it impulfible that the owners thotld find purchifers for their tunds. This, however, was far from being the $\mathrm{ca}^{\text {ce }}$; the doniand for India goods continually increved ; and thus a communication, formerly unknown, betwint all the

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nations of Lurope, was begun and kept up. inlie chis time, however, there had been no direa communication betwist Furope and India, as the Mohammedans would never allow any Chrillian to pats through their dominions into that country. The dreadful incorfions and conquets of the Tartars under Jenghiz-khan, however, had fo broken the power of the Mohammedans in the nortliorn parts of Afin, that a way was now opened to India through the dominions ot thefe barbarians. About the middle of the $13^{\circ h}$ century, there- Toarney of fore, Marco Polo, a Venetian, by getting acceís to the Marco Khan of the Tartars, explored many parts of the ent Poo inn which had long been unknown even by name to the Europeans. He travelled through China from Peking on its northern froatier to fome of its moft foutherly provinces. He vilited allo different parts of Hindoltan, and firf mentions Bengal and Guzerat by their modern names as great and liourihing kingdoms. $\mathrm{H}=$ obtained alfo fome accoult of an illand which be called Zipangri, and was probably no other than Japan; he vilited Java with feveral of the illands in its neighbourhood, the iliand of Ceylon, and the coaft of Malabar as far as the gulf of Cambay ; to all which he gave the names they have at this day. The difcovery of fuch immenfe regiuns unknown before in Europe, furnihed valt room for fpeculation and conjecture; and while the public attention was yet engaged by thefe difco-Genocie veries, the defruftion of Conllantinople by the Turks trade to gave a very conliderable torn to the Ean India com- Intia ruinmerce, by throning it almoit entirely into the hands taking of of the Venetians. Hitherto the Genoefe had rivalled ontantithat flate in the commerce we festk of, and they had nople. poffeffed themfelves of many important places on the coall of Greece, as well :ss of the port of Cafis on the Black fea. Nay, they had even eltablifhed themfelves at Conitantinople, in the fuburb of Pera, in fuch a manner as almoft entirely to exclude the Greeks ther $r_{2}-$ felves from any thare in this commerce; but by the deftruction of Conltantinople they were at once diviven out of all thefe poffeffions, and fo thoroughly humbled, that they could no longer contend with the Venetisas as before; fo that, during the latter part of the $15^{1 / 2}$ century, that republic fupplied the greater part of Europe with the productions of the eaf, and carried on trade to an extent far beyond what had been known in former times. The mode in which they now carried on this trade was fomewhat different from what had been practifed by ancient nations. The Tyrians, Greeks, and Romans, had lailed directly to ludia in quen of the commodities they wanted; and their example has been imitated by the navigators of modern Earope. In both periods the Indian commodities have been paid for in gold and filver ; and great complaints have, been made on account of the drain of thofe precicus metals, which were thus buried as it were in 1 dia, never to return again. The Vene-I monfe tians, however, were exempted from this lul's; for hat we:lrho of ving tio dired intercourfe with hadia, they fupplied the fee ethemfives from the warh wifes they found. in Egypt in m twear and Syria, ready filled with the preciods commo-l.di in dities they wanted; and thefe they purchafed morecemancre. fiequently by barscr than with ready money. 'Thirs, not only the republic of V'enice, but all the cities which hal the good forturie to become emporia for the India goods inacerted by it, were raifed to fuch a pitch of

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India. power and fplendor as farce ever belonged to any European flate. The citizens of Bruges, from which place the other European nations were for a long time fupphed with thefe goods, difplayed fuch magnificence in their dreis, buildings, and manner of living, as excited even the envy of their queen Joan of Navarre who came to pay them a vifit. On the removal of the faple from Bruges to Antwerp, the latter foon difplayed the fame opulence; and in fome cities of Germany, particularly Augfburg, the great mart for Indian commodities in the internal parts of that country, there are examples of merchants acquiring fuch large fortunes as entitled them to high rank and confideration in the empire. The moft accurate method, however, of attaining fome knowledge of the profits the Venetians had on their trade, is by confidering the rate of intereft on money borrowed at that time. This, from the clofe of the 11 th century to the commencement of the $t \delta t h$, we are told, was no lefs than 20 per cent. and fometimes more. Even as late as 1500, it was 10 or 12 in every part of Europe. Hence we are to conclude that the profits of fuch money as was then applied in trade mont have been extremely liigh; and the condition of the inhabitants of Venice at that time warrants us to make the conclufion. " In the magnificence of their houles (fays Dr Robertion), in richnefs of furniture, in profution of plate, and in every thing which contributed either towards elegance or parade in their mode of living, the nobles of Venice furpaffed the flate of the greatelt monarch beyond the Alps. Nor was all this difplay the effect of in oftentatious and inconfiderate diflipation; it was the natural confequence of fuccefful induftry, which, having accumulated wealth with eafe, is entitled to enjoy it in fplendor."

This cxceffive fuperiority of wealth difplayed by the Venetians could not fail to excite the envy of the other ftates of Europe. They were at no lofs to difcover that the Eaft India trade was the principal fource from whence their wealth was derived. Some of them endeavoured to obtain a fhare by applying to the fultans of Egypt and Syria to gain admiffion into their ports upon the fame terms with the Venetians; but either by the fuperior intereft of the latter with thofe princes, or from the advantages they had of being long eftablifhed in the trade, the Venetians always prevailed. So intent indeed were the other European powers on obtaining fome thare of this lucrative commerce, that application was made to the fovereign of Ruflia to open an intercourfe by land with China, though the capitals of the two empires are upwards of 6000 miles dittant from each other. This, however, was beyond the power of the Ruffian prince at that time; and the Venetians imagined that their power and wealth were fully eftablifhed on the moft permanent bafis, when two events, altogether unfore-
it never has recovered, nor can recover itfelf. Thefe were the difcovery of America and that of the paliage to the Eaft Indies by the Cape of Good Hope. The former put Spain in poffeffion of immenfe treafures; which being gradually diffufed all over Europe, foon called forth the induftry of other nations, and made them exert themfelves in fuch a manner as of itfelf muft bave foon leffened the demand for Indian productions.

The difcovery of the paffage to India by the Cape of Good Hope, however, was the molk effectual and fpeedy in humbling the Venetians. After a tedious courfe of voyages along the weltern coalt of Africa, continued for near half a century, Vafco de Gama, an active and enterprifing Portuguefe officer, doubled the Cape of Good Hope, and, coanting along the eaftern Thore of the continent, failed next acrofs the Indian occan, and landed at Calicut on the coaft of Malabar, on the 22d of May 1498, ten months and two days after leaving the port of Lifbon. On his arrival in India he was at firft received with great kindnefs by the fovereign of that country, flyled the Samarin; but afterwards, from what caufes we cannot now well determine, the Indian prince fuddenly cbanged his kindnefs into mortal enmity, and attempted to cut off Gama with his whole party. The Portuguefe admiral, however, found means to efcape every plot that was Jaid againt him ; and loaded his fhips not only with the products of that part of the country, but with many of the valuable products of the more remote regions.

On his return to Portugal, De Gama was received Exploiss of with all imaginable demonitrations of kindnefs. The the PorluPortuguefe nation, nay all the nations in Europe, the guefe in Venetians alone excepted, rejoiced at the difcovery which had been made. The latier beheld in it the certain and unavoidable downfal of their own power, while the Portuguefe, prefuming upon their right of prior difcovery, which they took care to have confirmed by a papal grant, plumed themfelves on the thoughts of having the whole Indian commerce centre in their nation. The expectations of the one, and the apprehenfions of the other, feemed at firft to be wellfounded. A fucceffion of gallant officers fent into the eat from Portugal accomplithed the greatef and moft arduous undertakings. In 24 years after the woyage of De Gama, they had made themfelves mafters of many important places in India; and among the relt of the city of Malacca, where the great flaple of trade throughout the whole Eaft Indies was eftablifhed. As this city ftands nearly at an equal diftance from the ealtern and weftern extremities of all the countries comprehended under the name of Indies, it was frequented by the merchants of China, Japan, of all the kingdoms on the continent, the Moluccas and other illands in that quarter, as well as by thofe of Malabar, Ceylon, Coromandel, and Bengal. Thus the Portuguefe acquired a moit extenfive influence over the internal commerce of India; while, by the fettlements they had formed at Goa and Diu, they were enabled to engrofs the trade on the Malabar coaft, and greatly to obftruct the long eftablifhed intercourfe of Egypt with India by the way of the Red fea. Their flips now frequented every port in the eaft where any valuable commodities were to be had, from the Cape of Good Hope to the river of Canton in China; and all along this immenfe extent of more than 4000 leagnes, they had a chain of forts and factories effablifhed for the convenience of protecting their trade. They had likewife made themfelves mafters of feveral ftations favourable to commerce along the fouthern coalt of Africa, and in many illands lying between Madazafcar and the Moluccas. In all places where they came, their arms had ftruck fuch terror, that they not only carried on theiv trade without any risal or controul, but cven prefcribed

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to the natires the terms of their mutual intercourfe; nay, fometinses they fet what price they pleafed upon the commedities they purchafed, and thus were enabled to impurt into Eurove the Indian commodities in greater abundance and at a lower rate than had ever been done before. Not fatisfied with this, they formed a fcheme of excluding all other nations from any fhare of the trade they enjoyed; and for that purpofe determined to make themfelves mafters of fuch flations on the Red fea and Perfian gulf as might put them in poffethon of the navigation of both thefe feas, and enable them not only to obftruef the ancient commerce between Egypt and India, but to command the mouths of the great rivers which we have formerly mentioned as the means of conveying the Indian goods through the internal parts of Adia. The conduct of thefe enterprifes was committed to Alphonfo Albuquerque, the mof diftinguifhed officer at that time in the Portuguefe fervice. By reafon of the valt number of the enemies he had to contend with, however, and the fanty fupplies which could be derived from Portugal, he could not fully accomplinh what was expected from him. However, he took from the petty princes who were tributaries to the kings of Perfia the fmall illand of Ormus, which commanded the mouth of the Perfian gulf; and thus fecured to Portugal the poffeffion of that extenfive trade witb the eaft which the Perfians had carried on for feveral centuries. On this barren ifland, almoit entirely covered with falt, and fo hot that the climate can fcarcely be borne, deftitute of a drop of freth water, except what was brought from the continent, a city was erected by the Portuguefe, which foon became one of the chief feats of opulence, fplendour, and luxury, in the eaftern world. In the Red fea the Arabian princes made a much more formidable refiftance; and this, together with the damage his fleet fultained in that fea, the navigation of which is always dificult and dangerous, obliged Albuquerque to retire without effecting any thing of importance. Thus the ancient channel of conveyance ftill remained open to the Egyptians; but their commerce was greatly circumfcribed and obftructed by the powerful intereft of the Portuguefe in every port to which they had been accuftomed to refort.

The Venctians now began to feel thofe effects of De Gama's difcovery which they had dreaded from the beginning. To preferve the remains of their commerce, they applied to the fultan of the Mameluks in Egypt, who was no lefs alarmed than themfelves at the lofs of fuch a capital branch of his revenue as he had been accuftomed to derive from the India trade. By them this fierce and barbarous prince was eafily perfuaded :o fend a furious manifetto to Pope Julius II. and Emmanuel king of Portugal. In this, after fating his exclufive right to the Indian trade, he informed them, that if the Portuguefe did not reliquith that new courfe of navigation by which they had penetrated into the Indian ocean, and ceafe from encroaching on that commerce which from time immemorial had been carried on between the eaft of Afia and his dominions, he would put to death ail the Chriftians in Egypt, Syria, and Palertine, and oemolith the holy fepulchre itfelf. To this threat, which fome centuries before would have alarmed all Chri!!endom, no regard was paid; fo that the Venetians, as their lait re-
foutce, were obliged to lave recourfe to a difierent expedient. This was to excite the fultan to fit out a fleet in the Red fea to attack the Portuguefe, and drive them from all their fettlements in the caft; nay, in order to alith him in the enterprife, he was allowed to cut down their forelts in Dalmatia, to fupply the deficiency of Egypt in timber for hlip-building. The timber was conveyed from Dalmatia to Alexandria; and from thence, partly by water and partly by land, to Suez; where twelve men of war were built, on board which a body of Mameluks were ordered to ferve under the command of an experienced officer. Thus the Portuguefe were affaulted by a new enemy, far more formidable than any they had yet encountered; yet fuch was the valour and conduct of the admiral, that after feveral fevere engagements, the fleet of the infidels was entirely ruined, and the Portuguefe became abfolute malters of the Indian ocean.

This difafter was followed in no long time by the total overthrow of the dominion of the Mameluks is Egypt by Selim the Purkifh fultan; who thus alfo became mafter of Syria and Paleftine. As his intereft was now the fame with that of the Venetians, a league was quickly formed betwixt them for the ruin of the power of the Portuguefe in India. With this view Selim confirmed to the Venetians the extenfive commercial privileges they enjoyed under the government of the Mameluks; publifhing at the fame time an edict, by which he permitted the free entry of all the productions of the eaft imported directly from A lexandria into any part of his dominions, but impofed heavy taxes upon fuch as were imported from Lifbon. All this, however, was infufficient to counteract the great advantages which the Portuguefe had obtained by the new paffage to India, and the fettlements they had eftablithed in that country; at the fame time that the power of the Venetians being cntirely broken by the league of Cambray, they were no longer able to contribute any affilance. They were therefore reduced to the neceffity of making an offer to the king of Portugal to purcbafe all the fpices imported into Lifbon, over and above what might be requifite for the confumption of his own fubjects. This offer being rejected, the Portuguefe for fome time remained uncontrolled mafters of the Indian trade, and all Europe was fupplied by them, excepting fome very inconfiderable quantity which was imported by the Venetians through the ufual channels.

The Portuguefe continucd to enjoy this valuable Why the branch of commerce undifturbed almoft for a whole Porsuguefe century ; to which, however, they are indebted more trade was to the political fituation of the different European nam not inter- by tions than to their own prowefs. After the acceffion other Eus of Charles V. to the throne of Spain, that kingdom was iopean either fo much engaged in a multiplicity of operations, powerso orving to the ambition of that monarch and his fon Philip II. or fo intent on profecuting the difcoveries and conquets in the new world, that no effort was made to interfere with the Ealt Indian trade of the Portuguefe, eren though an opportunity offered by the difcovery of a fecond paffage by fea to the Eaft Indies through the firaits of Mlagellan. By the acquifition of the crown of Portugal in 1580 , Spain, inftead of becoming the ijval, became the protector and guardian of the Portuguefe trade. The relources of France all

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Iudia. this tirae were fo much exhaufted by a continuance of lung and defolating wars, that it cculd beftow neither much attention on objects at fuch a diffance, nor engage in any expenfive lcheme. England was defolated by the ruinous wars between the houles of York and Lancalter, and aftewards its enterprifing fpirit was reftrained by the cautious and covetous Henry VII. His fon Henry VlII. in the former part of his reign, by engaging in the continental quarrels of the European princes, and in the latter part by his quarrel with the pope and coutelts about religion, left no time for commercial fomemes. It was not therefore till the reign of Queen Elizabeth that any attention was paid to the affairs of the ealt by that kingdom. The firlt who thook the power of the Portuguefe in India were the Dutch; and in this they wese gladly feconded by the natives, whom the Puituguefe had moll grievoully of prefled. The Englih foon followed their example; and in a few years the Portuguefe vere expelled from their mott waluable fettlements, while the moft lucrative branches of their trade have comimued ever fince in the hands of thofe two nations.
Rivalinip of the
Frenrb and
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Indies.
It is not to be fuppofed that the other European nations would fit Atill a:d quietly fee thefe two engrols the whole of this lucrative commerce without attempting to fut in for a flare. Eaft India companies were therefore fet up in difierent countries: but it was only between France and Britain that the great rivalihip commenced; nor did this fully difplay itfelf till after the peace of Aix-la-Chapelle. Both nations lad by this time made themfelves matters of

Enghith fet. lements in India.
to for diffenfion among the nabols, who had by this time ufurped the fovereignty of the country. Nizam Almuluck, viceroy of Decan, and nabub of Arco:, had, as officer for the Mogul, nommated Anaverdy Khan to be governor of the Carnatic, in the ycar 1745. On the death of Nizam, his fecond fon Nazir-zing was appointed to fucceed hin in his viceroyalty, dikt his nomination was confirmed by the Miogul. He was oppoled by his coufin Muzapher-zing, who applied to Dupleix for affiftance. By him be was fupplied with a body of Europeans and fome attillery; after which, being alfo joined by Chund. Saib, an active Indian prince, he took the field againt Nazir-zing. The latter was fupported by a body of Britulı troops under Colonel Laurence; and the French, dreating the event of an engagement, retired in the night; to that their ally was obliged to throw himfelf on the clemency of Nazirzing. His li e was fared, though he himfelf was detained as a ftate prifoner; but the traitor, forgetting the kindnefs tinoned him on this occafion, entered into a confpiracy againt the life of Nazir-zing, and murdered him in his camp; in which infamous tranfaction he was encouraged by Dupleix and Chunda Siib, who had retired to Pondicherry. Immente riches were found in the tents of Nazir-zing, great part of which fell to the thare of Dupieix, whom Muzapher-zing now affociated with himfelf in the govemment. By virtue of this affociation, the Frenchman affumed the Itate and formalities of an eallern prince; and he and his colleague Muzapher-zing appointed Cbunda Saib nabob of Arcot. In 1749, Anaverdy Khan had been defeated and killed by Muzapher-zing and Chunda Saib, aflifted by the French; after which his fon Mohammed illi Khan had put himfelf under the protection of the Englith at Madras, and was confirmed by Nazir-zing as his father's fuccefor in the nabobllip or government of Arcot. This govermment therefore was difputed betwixt Mohammed Ali Khan, appoint ed by the legal viceroy Nazir-zing, and fupported by the Englith company, and Chunda Saib nominated by the ufurper Muzapher-zing, and protected by Dupleix, who commanded at Pondicherry. Muzapher-zing, how: ever, did not long enjoy his ill-got authority; for in the year 1751 , the nabobs who had been the means of railing him to the power he enjoyed, thinking themfelves ill rewarded for their fervices, fell upon him fuddenly, defeated his forces, and put him to death ; proclaiming Salabat-zing next day viceroy of the Deccan, On t!e other hand, the Mogul appointed Gauzedy Khan, the elacr brother of Salabat-zing, who was confirmed by Mohammed Ali Khan in the government of Arcot: but the alfairs of the Mogul were at that time in fuch diforder, that he could not with an army fupport the nomination he had made Chunda Saib in the nean time determined to recuver by force the nabobllip of Arcot, from which he had been depofed by the Mogul, who had placed Anaverdy lihan in his room. With this view he had iccourfe to Dupleix at Pondicherry, who reinforced him with 2000 Sepoys, 60 Caffrees, and 420 French; upon condicion that if he fucceeded, he thould cede to the French the town of Velur in the neighbourhood of Pondicherry, with its depenclencies, conliting of 45 villages. 'I hus reinforced, he defeated Anaverdy Khan who luft his life in the engagement, reafionsed the government of Ar-

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India. cot, and punctually performed the cogagements he had come under to his ${ }^{\text {F French allici. }}$

All this time Mohammed Ali Khan had been fup. ported by the Engli:h, to whom he fled after his fathe:'s dwath. By them he was fupplied with a reinforcement of men, moncy, and ammunition, under the conduct of Major Laurence, a brave and experienced officer. By means of this fupply he gained lome advantages over the enemy; and repairing afterwards to Fort St David's, he obtained a further reintorcement. With all this allitance, however, he accomplibed nothing of any moment; and the Englifh auxiliaries having retired, he was defeated by his enemies. Thus he was oblized to enter into a more clofe alliance with the Englith, and cede to them fome commercial points which had been long in difpute; after which, Captain Cope was defpa:ched to put Trinchinopoli in a ftate of defence, while Captain de Gingis, a Swifs officer, marches at the bead of 400 Europeans to the affithance of the nabob. On this occafion Mr Clive firlt offered his fervice in a military capacity. He had been employed before as a writer, but appeared very little qualified for that or any other department in civil life. He now marcleed towards Areot at the head of 210 Earopeans and 500 Sepoys. In the firft expedition he difplayed at once the qualitics of a great commander. His movenents were conduted with fuch fecrecy and delpatch, that he made himfelf maiter of the enemy's capital before they knew of his march; and gained the affections of the people by his generofity, in affording protection without tanfom. In a thort time, however, he found himfelf invefted in Fort St Davd's by Rajah Saib, fon to Chunda Saib, an Indian chief, pretender to the nabobhilip of Arcot, at the head of a numerous army; the operations of the fiege being conducted by European engineers. Thus, in fpite of his utmoft efforts, two practicable breaches were made, and a general affault given; but Mr Clive haing got intelligence of the intended attack, defended himfelf with fuch vignur, that the affailants were everywhe:e repul?ed with lofs, and obliged to raile the frege with the greateft precipitation. Not contented with this advantage, Mr Clive, being reinforced by a detachmeat from Trincbinopoli, marched in quelt of the enemy; and having overtaken them in the plainsof Arani, attacked and entirely defeated them on the 3d-of December 1751.

This victory was followed by the furrender of the forts of Timery, Conjaveram, and Arani : after which Mr Clive returned in triumph to Fort St Darid's. In the begin inas of the year 1752 he marched towarls Madras, where he was reinforced by a frnall body of troops from Bengal. 'Though the whole did not exceeci 300 Earepeans with as many natives as twere firfficient to give the appearance of an army; he boldy proceeded to a flace called Koveripauk, about 15 miles from Arcot, where the enemy lay to the number of 1500 Sepoya, 1700 horfe, with i50 Euro wans, and cisht nieces of cannon. Victory was long doubatu!, unti] Mr Clive having fent round a detach:nent to fe!1 upon the rear of the enemy while the Englilh attacked the entenrhmen's in frort with their 'rayone's, a geraral confution enlucd, the enemy were routed with contider, le flusister, and only laved trons ental de. fraction by the darknefs of the mght. The French
to a man threw do:rn their arms, and furrendered l:dis. themfelves prifoners of war; all the baggage and cannon falling at the fame time into the hands of the vietors.

On the return of Mr Clive to Fort S: David's, he His exwas fuperfeded in the command by Mijor Laurence. ploi's undex By him he was detached with 400 Europeans, a few Major LauMahratta foldiers, and a body of Sepoys, to cut of ${ }^{\text {rence. }}$ the enemy's retreat to Pondicherry. In this enterprile he was attended with his ufual good fuccefs, took feveral forts, vanquihed the French commander M. d'Anteuil, and obliged him with all his party to furrender prifoners of war.

Chunda Saib, in the mean time, lay encamped with Death of an army of $30,00 ว$ men at Syringham, an inand in the chundz neighbourhood of Trinchinopoli; but Major Lau-Saib. rence baving found means to intercept his provifions, he was obliged to Hy. Being obliged to pafs through the camp of the Tanjore general, he obtained a pafs for the purpofe; but was neverthelefs detained by the nabob; who was an ally of the Englifh, and his head was fruck off, in order to prevent any difputes that might arifc concerning him.

After the 日ight of Chuada Saib, his army was attacked and routed by Major Laurence; and the illand of Syringham lurrendered, with about 1000 French foldiers under the command of Mr Lasr, brother to him who fchemed the Muliilippi company. M. Dupleix, M Dupleix exceedingly mortified at this bad fuccefs, proclaimed pretends Rajah Saib, fon to Chanda Saib, nabob of Arcot; fommirand afterwards produced forged commifions from the the Mogul, Great Magul, appointing him governor of all the Car-and aftects natic from the river Kriitnah to the fea. The better the titate of to carry on this deception, a meffenger pretended to ${ }^{\text {an }}$ Indian come from Delhi, and was received rith all the pomp prince. of an amballador from the Great MIogul, Dupleix, mounted on an elephant, and preceded by mufic and daucing women, after the oriental fathion, received his commiltion from the hands of this impoitor; after which he affected the itate of an eaftern prince, kept his durbar or.court, appeared fitting crofs-legged on a fopha, and received prefents as forereign of the country, from his own council as well as from the natives.

Thus the forces of the Englili and French Eat India companies were engaged in a courfe of hoftilities at a time when no war exifted between the two nations; and while they thus cortinued to m ke war upon each other under the title of auxilianies to the contending parties, Gzuzedy Kinan took pofeffion of the dignity appointed him by the Mogul ; but had not been in poffeflion of it athove if days when he was poifored by his own titer. His fun scals A radin Khan was apponted to fucceed him by the Mogul; ; ut the latter being unable to give hom proper affitance, Sala-bat-zing remained willout any rival, abl made a pre. fent to the French comnander of all the Englith poifeffions to the northward.

Thus couclu ied the cumatign of 1952 . Next year 47 both parties received confilerable reinforcerrents; the ments arEnglifh, by the arrival of Admiral Watfon with a ryv finm fquadron of thise of war, having on hoard a resiment En ward commanded by C lonel Aldercrum; and the French by M. Gadeheu, commifiny and 8 in rinorgencral of all their fettements, on whote arrival M. Dapleix do-

## I $\mathrm{N} \quad \mathrm{D}$

India.
$4^{8}$ Provifional treaty betwixt the ewo nations con. cluded.
paried for Europe. The new governor ruade the mof friendly propofals; and defired a ceffation of arms until the difputes could be adjulted in Europe. Thefe propofals being readily liftened to on the part of the Englifh, deputies were fent to Pondicherry, and a provifional treaty and truce were concluded, on conditiou that neither of the two companies mould for the future interfere in any of the differences that might take place in the country. The other articles related to the places or fettlements that fhould be retained or polfefled by the refpective companies, until frefh orders fhould arrive from the courts of London and Verfailles; and till then it was flipulated, that neither of the two nations fhould be allowed to procure any new grant or ceffion, or to build forts in defence of any new eftablifiment ; nor fhould they proceed to any ceffion, retroceffion, or evacuation, of what they then poffeffed ; but every thing thould remain on the fame footing as formerly.

The treaty was publifhed on the ith of January 1755 ; at the end of which month Admiral Watfon returned with his fquadron from Bombay, and M. Gadeheu returned to France in the beginning of February, leaving . M. Leyrit his fucceffor at Pondicherry. M. Buffy, with the Soubahdar Salabat-zing, commanded in the north; and M. de Saulay was left to command the troops at Syringham. Matters, however, did not long continue in a ltate of tranquillity. Early in the year it appeared that the French were endeavouring to get poffeflion of all the provinces of the Deccan. MI. Buffy demanded the fortrefs of Golconda from Salabat-zing; and R. Leyrit encouraged the phoufder or governor who rented Velu to take up arms againft the nabob. He even fent 300 French and as many Sepoys from Pondicherry to fupport this rebel, and oppofe the Englifh employed by the nabob to collect his revenues from the tributary princes. In this office they had been employed ever fince the ceffation of hoftilities; one half of the revenue being paid to the nabob, and the other to the company, which

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Experition of the Eng lif into $t$ he count: $y$ of the Po. lygars. now involved them in a kind of military expedition into the country of the Polygars, who had been previoully fummoned to fend agents to fettle accounts with tie nabob. Eour of them obeyed the fummons; but one Lackenaig refufed, and it was therefore refolved to attack him. The country was very ftrong, being almoft entirely fortified by nature or art; for it was furrounded by craggy hills detached from one another, and covered with bufles fo as to be impaffable for any but the natives, who had thrown up works from hill to hill. Thefe works were indeed very rude, being formed of large fones laid upon one another without any cement, and flanked at proper diftances by round earthen towers; before the wall was a deep and broad ditch, with a large hedge of bamboos in front, fo thick that it could not be penetrated but by the hatchet or by the fire. This was fo:ced, though not without fome lofs; after which another work of the fame kind, but ftronger, made its appearance; but this being likenife forced, Lachenaig was obliged to fubmit and pay his tribute.
The Englifis army now marched to Madura, a ftrong Indian town about 63 miles fruth of Trinchinopoli. On their approach it fubmitted-without any onpofition, and the indabitants feemed pleafed with their chango
of government. Here a deputation was received from a neighbouring Polygar, deliring an alliance, and as a proof of his fincerity making an offer of two fettle ments on the fea-coalt of his country oppofite to the fetur new ifland of Ceylon, which would greatly facilitate their obtained future commerce with Tinivelly. Before this time by the they could not have reached that city but by a circui. Erglidh. tous march of 400 or 500 miles; but from the new fettlements the dillance to Tinivelly was no more than 50 miles, and reinforcements or fupplies of any kind might be fent them from Madras or Foft St David in four or five days. This offer being accepted, Co-Exploits ol lonel Heron, the Englifh commander, marched to at-Colonel tack the governor of Madura, who had Iled to a place Heror. called Coilgooty: on the approach of the Englih he fied from this place allo, leaving the greateft part of his troops to defend the place. The road was fo rugged, that the carriages of the camon broke down; and as the troops were not furnified with fcaling ladders, there feemed to be little hope of gaining the place, which was very Atrong. The colonel, however, determined to make an affault after the Indian manner, by burning down the gates with bundles of fraw; and to encourage his men in this new method of atrack, he himfelf carried the firt torch, being followed by Mohammed Iffouf, wbo bore the fecond. The place was ta-His impreken and plundered, not fparing even the temples; dence in which infpired the inhabitants with the utmoft abhor- plundering rence of the victors on account of their contempt of temples. theif religion.

After this exploit the army removed to Madura ; and and a garrifon being left in the place, they proceeded to Tinivelly, which fubmitted without oppofition, and owned the jurifdiction of the nabob; though fome of the Polygars ftill evaded payment, and therefore hoftilities were commenced againt them.

The new expedition was marked by an act of the Croel mafmoft difgraceful cruelty at a fort named Nellecotah, facre at 40 miles fouth of Tinevelly. It nas fortified by a mud Nellecouah. wall with round towers. The affault was made with great refolution, and the troops gained poffefion of the parapet without being repulfed. On this the garrifon called out for quarter, but it was barbaroufly refufed; a general maflacre of men, women, and children enfued, only fix perfons out of 400 being fuffered to efcape with life.

It now appeared that the revenues collected in this expedition had not been fufficient to defray the expences of the army; and a report being fpread that Salabat-zing was advancing into the Carnat.c at the bead of his army, along with M. Bufly the French commander, to demand the Mogul's tribute, it was thought proper to recal Colonel Heron to Trinchinopoli. Before this, he had been prevailed on by the Indian chief who accompanied bim, to convey to him (Mazuphe Cawn) an inveltiture of the countries of Madura and Tinevelly for an anmualrent of 187.5001 . fterling. In his way he was likewife induced by the fame chief to make an attempt on a ftrong fort named Nellytangaville, fituated about 30 miles welt of Tinevelly; and belonging to a refractory Polygar. This attempt, howevcr, proving unfucceffful for want of battering cannou, the colonel returned with Mazuphe Cawn to Trinchinopoli, where he atrived on the 22d of May 1755. ages which the rapacious conquerors had carried off. In confequence of this they had already flaughtered a party of Sepoys whom the commanding officer at Madura had fent out to colleft cattle. In their march the Englilh army bad to go through the pars of Natam, one of the moft dangerous in the peninfula. It begins about 20 miles uorth of Trinchinopoli, and continues for fix miles through a wood imparable to Europeans. The road which lay through it was barely fulficient to admit a fingle carriage at a time, at the fame time that a bank running along each fide rendered it impoffible to widen it. In moft places the wood was quite contiguous to the road; and even where part of it had been felled, the eye could not penetrate above 20 yards.-A detachment of Europeans, pioneers, and fepoye, were fent to foour the woods before the main body ventured to pafs through fuch a dangerous defile. The former met with no oppofition, nor did any enemy appear againft the latter for a long time. At laft the march was fopped by one of the heavieft tumbrils fticking in a flough, out of which the oxen were not able to draw it. The officers of artillery fuffered the troops marching before to proceed; and the officer who commanded in the rear of the battalion, not furpealing what had happened, continued his march, while moft of the Sepoys who marched behind the rear diviion of the artillery were likewife fuffered to pafs the carriage in the flough, which choaked up the road, and prevented the other turabrils from moving forward, as well as three field pieces that formed the rear divifion of artillery, and the whole line of baggage that followed. In this divided and defencelefs fate the rear diviion of the baggage was attacked by the Indians; and the whole would certainly liave been deffroyed, had it not been for the courage and activity of Capt. Smith, who here commanded 40 Cafres and 200 Sepoys, with one fix-pounder. Confiderable damage, howerer, was done, and the Indians recovered their gods; which certainly were not worth the carrying off, being only made of brafs, and of a diminutive fize.-Colonel Heron was tried by a court-martial for mifonduat in this expedition; and being found guily, was declared incapable of ferving the comoany any longer: foon after which he returned to Europe, and died in Holland.

In the mean time Nanderauze, an Indian prince, formed a fchene to get poffeffion of Trinchinopoli; ; and in order to compafs his end with greater facility, communicated his deifign to M. de Sauflay the commander of the French troops. But tlis gentleman having cormmunicated intelligence to the Englifh commander, the enterprife mifcarried, and no difference betwixt thefe two rival nations as yet took place. It does not, however, appear that the Englihh were in the leaft more folicitous to avoid hotililities than the French; for as foon as the company were informed of the acquiftions made by M. Buffy in the Deccan, it was determined to encourage the Mahrattas to attack Sala-bat-zing, in order to oblige him to difmiis the French auxiliaries from bis fervicc. In order to fucceed in this
enterprife, it was neceffary to have a commander we!1 cxperienced in the political fyfems of the country, as well as in military affairs; and for this purpofe Mir Clive, norv governor of Fort S: David's, and invetted with a lieutenant colonel's commilfion in the king's troops, offered his fervice. Three companies of the king's artillery, confifting of 100 men each, and 300 recruits, were fent from England on this expedition, who atrived at Bombay on the 27th of November; when on a fudden the prefidency of Madras took it into confideration that this expedition could not be The expeprofecuted without infringing the convention made dirion laid with the French commander. "This (Fays Mr Grofe) afide was acting with too much caution; for every thing relating to Salabat-zing and the French troops in his fervice feemed to have been ftudioufly avoided. The court of directors had explained their whole plan to the prefidency of Madras; but the thip which had the letters on board was unfortunately wrecked on a rock about 800 miles ealt of the Cape of Good Hope." The whole expedition was therefore laid afide, and the prefidency of Madras directed all their furce for the prefent againt Tulagee Angria, who had long been a formidable enemy to the Englifh commerce in thofe parts.

The dominions of this pirate confifted of feveral Account of inlands near Bombay, and an extent of land on the the pirate continent about 180 miles in length, and from 30 to Tulagee 60 in breadth. He poffenfed alfo feveral forts that had Angria. been taken from the Europeans by his ancefturs; the
 family, and indeed followed by molt of the inhabitants of this coalt. This was the more dangerous for trading veifels, as the land breezes do not here extend more than 40 miles out at fea, fo that the fhips are obliged to keep within fight of land; and there was not a creek, harbour, bay, or mouth of a river, along the whole coaft of his dominions, whete Angria had not erected fortifications, both as flations of difcovery and places of refuge to his veflels. His fleet confifted of two kinds of veffels peculiar to this country, named graós and gallivats. The former have generally two Defriptict 59 malts, though fome have three; the latter being about of hisflest. 300 tons burthen, and the former 150 . They are built to draw little water, being very broad in proportion to their height; but narrowing from the middle to the end, where, inftead of bows, they have a prow projecting like a Mediterranean galley, and covered with a frong deck level with the main deck of the vefiel, from which it is feparated by a bulk-head that terminates the forecaftle. As this conftruction fubjects the grab to pitch violently when failing againft a head lea, the deck of the prow is not inclofed with fides as the reft of the veffel, but remains bare, that the water which cornes upon it may pafs off without interruption. Two pieces of cannon are mounted of the main deck under the forecallle, carrying balls of nine or twelve pounds, which point forwards through port-holes cut in the bulk-kead, and fire over the prow; thofe of the broad-fide are from fix to nine pounders. The gallivats are large row-boats built like the grab, but fmaller, the largeft fcarce exceeding 70 tons burden. They have two mafts, the mizen flightly made, and the main-maft bearing one large and triangular fail. In general they are covered with a fpar deck made of

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\{plit bamboos, and carry only paterrerocs ined on fwirels in the gunnel of the veffel; but thofe of a larger fize have a fixed deck, on which they mount fix or eight pieces of cannon from two to four pounders. They have 40 or 50 flout oars, by which they mas be mored at the rate of four miles an hour.

Angria had commonly a fiect of eight or ten grabs, with 40 or 50 gallivats; which nipped their cables and put out to fea as foon as any veffel had the mistortune to come within fight of the port or bay where they lay. If the wind blew with any frength, their conltruction enabled them to fwim very fwiftly: but if

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Their man ret of attacking thips. it was calm, the gallivats rowed, and towed the grabs. As foon as they came within gunnot of the enemy, they affembled aftern, and the grabs began the attack, fring at firit only at the mafts, and choofing the moft adrantageous pofitions for this purpofe. If the veffel happened to be difmafted, they then drew nearer, and battered her on all fides till the flruck; but if the defence was obfinate, they fent a number of gallivats with 200 or 300 fuldiers in each, who boarded from all
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Unfisccefs. ful attempts tn reduce this risate. quarters fword in hand.
This piratical flate had for more than 50 years been fornidable to all the nations in Europe; the Englith Eaft India company had kept up a naval force for the protection of their trade at the rate of more than 50,0001 . annually, and afier all found it fcarcely adequate to the purpofe. An unfuccefsful attempt had been made in 1717, by the prefidency of Bombay, againf the forts Geriah and Kennary, the primcipal ftrong holds of Angria.-Another was made in 1722, under Admiral Mathews, againft a fort named Coilabley, about 15 leagues fouth of Bombay: but this alfo mifcarried through the cowardice and treachery of the Portuguefe, who pretended to affif the Englift. In 1735 Fort Geriah was unfucceffully attacked by a Dutch armament of feven hlips, two bomb-ketches, and a numerous body of land forces; while all this time the piracies of Angria went on fuccefffully, and not only trading veffels, but even men of war belonging to different nations, were captured by him, particularly in the month of February 1754, when three Dutch hips of 50,36 , ald 18 guns, were burnt or taken by the piratical Heet.

This laft fuccufs encouraged Angria fo much, that he began to build veffels of a large fize, boafting that he frould be mafter of the Indian feas. The Mahrat-

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Succefs of
commo. dore James againat his torls.
only with one furir pounder. The commodore, provoked at this putillanimous behaviour, detemined, for the honour of the Britim arms, to exceed the orders he had got. Running within 100 yards of a fort named Severnlroog, he in a few bours ruined the walls, and let it on fire; a powder magazine alio blowing up, the people, to the number of about 1000 , nbandoning the piace, and embarking on board of eight large boats, attempted to male their elcare to another fort named Goa, but were all inieicepted and made prifoners by the Englut. The whole force of the attack being then tumed upon Gon, a whate flag was foon bung out as a figmal to furrender. The governor, however, did not thinis proper to wait the event of a capitulat:on, but without delay pafied over to Severn. droog, where he hoped to be able to maintain his ground notmathitanding the winous state of the fortifications. The fire was :oni renewed againf this fortrels; and the feamen having cut a paflage through one of the gates with their axes, the garrifon foon lurrendered, at the fame time that two other forts befieged by the Mahrattas hung out flags of truce and capitulated: and thus were four of Ang-ia's forts, for fo many years deemed impregnable, fubdued in one day.

Thefe fuccefles were followed by the furrender of The pirat Bancoute, a frong fortified inland, now called Fort finally ful Vichoria, and which the Engliff retained in puffefion; inued by but the other forts were delivered up to the Mahrattas. Wamifon. On the arrival of Admiral Waifon in the beginning of November ${ }^{1755}$, it was determined to root out the pirate at once, by attacking Geriah the capital of his dominions; but it was fo long lince any Englifhman had feen this place, and the reports of its ftrength had been fo much exaggerated, that it was thought proper to recomoitre it before any attack was made. This was done by Commodore James; who having reported that the fort, though itrong, was far from being inaccoflible or impregnable, it was refolved to profecute the enterprife with the utmoft expedition and vigour. It was therefore attacked by fuch a formidable Reet, that Angria, lofing courage at their approach, Hed to the Mlahrattas; learing Geriah to be defended by his brother. 'The fort, however, was loon obliged to furrender, with no more lo!s on the part of the Englith than 19 men kiiled and wounded: but it was afterwards acknowledged, that this fuccefs was owing principally to the terror of the garrifon, occafioned by fuch a violent cannonade; for their fortifications appeared to have been proof againft the utmon efforts of an enemy. All the ramparts of this fort were either cut out of the folid rock, or built of ftones at leaft ten fer: long laid edgeways.

In this fortrefs were found 200 pieces of brals cannon, with lix brafs mortars, and a great quantity of ammunition and military fores, befides morey and effects to the value of 325,0001 . Angria's fleet was entirely deffroyed, one of the thips having been let on fise by a fhell from the Englifh flect, ard the flames having fpread from thence to all the ref. Alout 2000 people were made frifcners; among whom were the wife, clildren, nother, brother, and admiral of the pirate: but they were treated wish the greatelt clemency; and his family, at their own requelt. continued under the protection of the Englifh at Geriah. All
tas having implored the affiftance of the Englifh againft this common enemy, Commodore William James was fent from Bombay on the 22d of March 5755 , with the Protector of 44 , the Swallow of 16 guns, and two bomb-ketches; but with inftructions not to hazard the fleet by attacking any of the pirate's forts, only to blockade the harbours, while the Mahratta army carried on their operations by land. He had fearce begun his voy age when he fell in with a confiderable fleet of the pirates, which he would certainly have taken, had it not been for the timidity and dilatory behaviour of his allies, who could not by any means be induced to follow him. They had, however, invefted three of the forts, but after a very ftrange manner; for they durft not approach neaver than two miles, and even there entrenched themfelves up to the chin, to be fecure againtt the fire of the fort, which they returned
the other forts belonging to Angria fous fubmitted; fo that his power on the coalt of MIlabar was entirely annihilated.

While the affairs of the Englihs went on thus fuccefffully, M. Bafy had been conilantiy employed near the perfon of Salabat-zing, whom he had ferved in much the fame manner that the Englik lad Mohammed Ali Camm. As he made ufe of his influence with that prince, however, to enlarge the poffelions of the French, and was continually making exorbitant demands upon him, the prime minifter of Salabat-zing at length reprelented to him the danger and thane of allowing a fmail body of foreigners thus to give law to a great prince; and having formed a porserful combination againft the French, at laft obtained an order for their difmiffon. M. Buffy took his leave without any marks of difgut, having under his command about 600 Europeans, with 5000 Sepoys, and a fine train of artillery. His enemies, however, had no mind to allow him to depart in fafety ; and therefore fent orders to all the polygars to oppofe their paffage, fending 6000 Mabrattas after them to harals them on their march.

Notwithlanding this oppofition, M. Bufly reached Hyderabad with very little lofs. Here he took poffelfion of a garden formerly belonging to the kings of Golconda, where he refolved to keep his poit until fuccours ftould arrive from Pondicherry and Mafulipatam. Here Salabat-zing propofed to attack him; and the better to attain his purpole, applied to the Englih prefidency at Madras for a body of troops to affilt him in this fervice. Nothing could be more agreeable to thofe who had the power at that place than fuch an invitation; and a detachment of $400 \mathrm{Eu}-$ ropeans and 1500 Sepoys was on the point of being ordered to the affiftance of Salabat-zing, when exprefles from Bengal informed them of the greatel danger that had ever threatened the Britifh fettlements in Indoftan.

This danger arofe from the difpleafure of Surajah Dowla the new nabob of Bengal. His grandfather Aliverdy Khan having died in April or May 1756 , Surajah fucceeded to the nabobhip of Bengal, Bahar, and Orixa. He was congratulated on his accelfion by Mr Drake the Englihh prefident at Calcutta, who reque?ted his favour and protection in behalf of his countrymen. This was readily promifed, even to a greater degree than what had been hown by his grandfather; but in a thort time his refentment was incurred by the imprifonment, as it is raid, of Omichund, an eminent Gentoo merchant, who had lived feveral years under the protection of the Englifh government at Calcutta. Of this, however, Surajah Dowla did not directly complain; but founded his pretence of war upon the conduct of the Englifh in repairing the fortifications of Calcutta; which indeed was abfolutely neceffary on account of the great likelihood of a war with the French. On this account, hovever, the nabob fignified his difpleafure, and threatened an attack if the works were not inftantiy demolihed. With this requiation the prefident and council pretended to comply; but neverthelefs went on with their works, applying firf to the French and then to the Dutcls for afliftance; but as neither of Vor. XI. Part I.
thefe nations thought proper to interfere, the Englifs were obliged to ftand alone in the quarrel.

Surajah Dowla took the field on the $30: 1$ of Myy ris ${ }^{67}$ di 1756, with an army of $40, \cos$ foot, 30.vos horle, ton age mis and 400 elephants; and on the $2 d$ of June detached aicuira. 20,050 men to inveit the Englih fort at Caffambazar, a large town fituited on an illand formed by the weftern branch of the Ganges. The fort was regularly built, with 60 cannon, and defended by 300 men, but principally Sepoys. The nabob pietending a defire to treat, Mr Wratts the chief of the factory, was perfuaded to put himfelf in his power; which he had no fooner done, than he was made a clole prifoner, along with Mr Batfon a furgeon who accompanied him. The two prifoners were treated with great indignity, and threatened with death; but two of the council who had been fent for by the tyrant's command were fent back again, with orders to perfuade the people of the factory to furrender it at difcretion. This propolal met with great oppofition in the council; but was at laft complied with, though very little to the advantage of the prifoners; for they were not only deprived of every thing they poffeffed, but ftripped almont naked, and fent to Huquely, where they were clofely confined.

The nabob, encouraged by this fuccels, marched direstly to Calcutta, which he invelted on the 15 th. Though he now threatened to drive the Engliih entirely out of his dominions, yet he propofed an accoramodation with Mr Drake, provided he would pay him his duty upon the trade for 15 years, defray the expences of his army, and deliver up the Indian merchants who were in the fort. This being refufed, a fiege conmenced, and the place was taken in three days, through the treachery of the Dutch guard a who had the charge of a gate. The nabob promifed pritionon the word of a foldier, that no harm fhould be done catea. the Englifh; neverthelefs they were fhut up in a prifon fo flrait, that out of 146 all perimed in a fingle night for want of air but 22 . It was not, however, fuppofed that any maflacre at this time was intended; and it is probable that he only gave orders to confine the prifoners clofely for the night, without taking into confideration whether the place they were confned in was large or fmall.

The news of this difafter put an end to the expedition projected againft M. Buffy; and Colonel Clive was infantly difpatehed to Bengal with $4: 0$ Euro- Ex $\mathrm{r}_{1}$ edition peans and 1000 Sepoys, on board of the fleet com- of talniral manded by Admiral Watfon. They did not arrive till Warfun the $15^{\text {th }}$ of December, at a rillage called Fulta, fitu- and C loated on a branch of the Ganges, where the insaoitants nelanitt the of Calcutta had taken refuge after their misturtune, nabob. Their firt uperations were againft the forrs Bufbudgia, 'Ianna, Fut-iVilliam, and Calcuita now in the hands of the enemy. All thefe were reduced almoft as foon as they could approach them. An expedition was then propofed againft Huegley, a large town about 60 miles above Calcutta, and the place of rendezvous for all nations who traded to Bengal; its warehoufes and thops being always filled with the richeit merchandife of the country. This was likewife eafily reduced; and the city was deftroyed, with the granaries and llorehoulcs of falt feeted on each fide the river; which

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India. proved very detrimental to the nabob, as depriving him of the means of fubfiftence for his army.

Surajah Dowla, enraged at this fuccefs of the Englith, now leemed determined to crufh them at once by a general engagement. From this, however, he was intimidated by a fuccefsful attack on his camp, which foon induced him to conclude a treaty. This 70 took place on the 9tlu of February 1757, on the folTreaty con lowing conditions. 1. That the privileges and immucluded with nities granted to the Englifh by the king (MIogul) him. fhould not be difputed. 2. That all goods with Englinh orders hould pafs, by land or water, free of any tax, fee, or impofition. 3 . All the Company's factories which had been feized by the nabob flould be reftored; and the goods, money, and effects, which had been plundered, fhould be accounted for. 4. That the Engilih fhould have permifion to fortify Calcutta as they thought proper. 5. They thould alfo have liberty to

As certain intelligence was now received of a war between France and England, the frit object that na- turally occurred, after the conclufion of this treaty, was the reduction of the French power in the eall ; ia confequence of which it was reprefented to Admiral IVat fon, by a committee of the council of Bengal, that this was the only opportunity lee perhaps might ever have of acting offenfively againt them. An attack mould therefore immediately have been made on Chandernagore, had not a deputation arrived from that piace, requelting a neutrality in this part of the world until matters fhould be finally decided in Europe. The negociation, however, was broken off on a fuggeftion that the government of Chandernagore, being fubordinate to that of Pondicherre, could fot render any transaction of this kind ralid. It remained therefore only to obtain the confent of the nabob to make an aitack upon this place: but this feemed not likely The nabol, to be got; for in ten days after the conclufion of the complains treaty, he fent a letter to the admiral, complaining of of the Eng- his intention. "It appears (fays he) that you have a ilh.
ters pafied between lim and the nabob, in one of which the latter made ufe of the following expreflions, which were fuppofed to imply a tacit confent that Chandernagore fhould be attacked. "My forbidding war on my borders was becaule the French were my tenants, and upon this affir defired my protection: on this I wrote to you to make peace, and no intention had I of favouring or affifting them. You have underflanding and generofity: if your enemy with an upright heart claims your protection, you will give him his life; but then you mult be quell latisfied of the intiocence of his intentions; if not, then whatfocrer you think right, that do."

Having thus, as was fuppofed, obtained the confent of the nabot, an attact was made on Chanderna- Chanifergore, which was foon reduced to the necellity of capi-ken by the tulating; though the Trench made a gallant defence, and, as Mr Ives informs us, "flood to their guns as long as they liad any to fire." A mefienger was dil patched with the news to Surajali Jowla three davs after the place had furrendered, intimating allo that the French had been purfued fome way up the country. This intelligence, however, feemed to be by no means agreeable, as he could fcarce be induced to return $1, a$ anfwer. At laft he pretended difpleafure on account of the defgn of the Englith to infringe the treaties, and complained that they had ravaged fome parts of his deminions. This was denied on the part of the admiral; who in his turn accufed the nabob of breach of promife, and neglect in fuifilling his engagements. The lall letter fent by Admiral Waion to the naboh, of date 1gth April $175 \%$, concludes in this manner"Let me again repeat to you, that I have no other views than that of peace. The gathering together o? riches is what I defpife; and I call on God, who fees and knorrs the fpring of all our actions, and to whom you and I mult one day anlwer, to witnels to the truth of what I now write: therefore, if you would have me believe that you wihh for peace as much as I do, no longer let it be the fubject of our correfpondence for me to ank the fulfilment of our treaty, and you to promile and not perform it ; but immediately fulfil all your engagements: thus let peace flourifh and Spread throughout all your country, and make your people happy in the re-eftablifhment of their trade, which has fuffered by a ruincus and deftructive war." From this time, both parties made preparations for war. The nabob returned no anfwer till the $13^{\text {th }}$ of June, when he fent the following declaration of war. " According to my promifes, and the agreement made between us, I have duly rendered every thing to Mr Watts, except a very fmall remainder: Notwithftanding this, Mr Watts, and the reft of the council of the factory at Caffembuzar, under the pretence of going to take the air in their gardens, lled away in the night. This is an evident mark of deceit, and of an intention to break the treaty. I am convinced it could not have hap. pened without your knowledge, nor without your advice. I all along expected fomething of this kind, and for that reafon I would not recal my forces from Plaffey, expecting fome treachery. I praife God, that the breach of the treaty has not been on my part," \&c.

Nutbing lels was now refolved on in the Engliih the nabo cunncil at Calcutta than the depofition of the nabob; on. which

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Indis.
which at this sime appeared practicable, by fupporting the pretendions of Meer Jather Ali Cawn, who had with other noblemen entered into a confpiracy againt? him. Meer Jaftier had martied the titer of Aliserdy Cawn, the predeceflor of Surajah Dowla; and was now furported in his pretentiom by the general of the horfe, and by Jugget Seet the nabob's banker, who was reckoned the richeft merchant in all India. By thele three leading men the derign was communicated to Mr Wratts the Englib refident at the nabob's court, and by nim to Colonel Clive and the fecret committee at Calcutta. The management of the affar being left to Mr Watts and Mr Clive, it was thought proper to communicate the fecret to Omichund, through whom the neceflary correfpondence might be carried on with Meer Janer. This agent proved fo avaricious, that it was refolved to ferve him in his own way; and by a piece of treachery to him alfo, to gain their point with both parties. Two treaties were therefore written out; in one of which it was promifed to comply with Onichund's dema:nd, but in the other his name was not eveis mentioned; and bosi thefe treaties were figred by ail the principal perłons concerned, Admiral Wation alone excepted, whom no political motives could intuence to fign an agreement which he did not mean to keep. Thefe treaties, the fame in every refyect excepting as to Omichund's affair, were to the follosing purpofe: 1. Ail the effeits and factories belonging to the province of Bengal, Bahar, and Osixa, hail remain in pofeffion of the Englih, nor fhould any mure French ever be allowed to fettle in thefe provinces. : In confideration of the iofies fuftained by the Engli.h company by the capture and plunder of Calcutta, he agreed to pay one crore of rupees, or $1,250,0001$. Aterling. 3. For the effects plundered from the Englifh at Calcutta, he engaged to pay 50 lacks of rupecs, or $625,=001$. 4. For the effects plundered from the Gentoos, Moors, and others inhasitants of Calcutta, 20 lacks, or 250,0001 . 5. For the effeets plundered from the American merchants, iinhabitants of Calcutta, feven lacks, or 87,5001 . 6. The diftibution of all thefe fum, to be left to Admiral Watfon, Colonel Clive, Roger Drake, WilLiam Waits, James Kilparick, and Richard Becher, Efquires, to be difpoled of by them to whom they think proper.

All things being now in readinefs, Colonel Clive began his march againt Surajah Dowla oil the $13^{\text {th }}$ of June, the very day on which Surajah Dowla lent off his laft letter for Admiral Watfon. Befure any act of hoflility was committed, however, Colonel Clive wrote the nabob a letter, upbraiding him with his concu? and telling him at laft, that "the raius being fo near, and it requiring many days to reccive an anfiver, he had found it necelfary to wait upon him immediately." This was followed by the decifive action at Plaftey; in which the treachery of Mecr Jaffier, who commanded part of the nabob's troops, and flood neuter during the engagement, uidoubtedly rendered the vitiory more eafily acguired than it would otherwife have been. The unfortunate nabob fled to his canital with a few that continued faithful to him. He reached the city in a few hours; but not thinking himfelf fafe there, left it the following evening, difguifed like a Façuir, with only two attendants. By thefe he appears
to have been abardoned and even roblied; for on the $3^{d}$ of July he was found wandering forfation and almof naked on the road to Patna. Next day le was brought back to Muxadabad; and a few hours afier privately leheaded by Meer Jaffier's eldeft Con, to whofe care he had been committed. 'The ulurper took pofeflion of the capital in triumplr ; and on the 29th of June Colonel Clive went to the palace, and in prefence of the ra- vecr $7^{8}$ jals and grandees of the court folcranly handed him to ier prothe mufnud or carpet and throne of Alate, where he was lai -d unanimoully faluted foubahdar or nabob, and received nit, of the fubmilfion of all prefent. While thefe tranfactions were foing forward with olone the nabob, the utmolt efforts were ufed to expel the Ciote"s French entirely from Bengal. By the articles of capi- xpedtion tulation at Chandernagore, the whole of that garrifon quet? of were to continue prifoners of war; but about the time of figning the treaty, Mr L.aw with a fmall body of troops made his efaape out of Caffembuzar, and bent his march towards Paina. There he had been protected by the late nabob; and on the commencement of frefh hottilities, had collected about 200 French, the only remains of that nation in Bengal, to nake an attempt to fuccour him. With thefe he was within two hours march of Surajah Dowla's camp when the battle of Plafley was fought; on hearing the news of which he ftopped : but afterwards being informed of the nabob's efcape, he marched again to his affitance, and was within a few hours of joining him when he was taken. Three days after he was purlued by MI jor Eyre Conte at the head of 223 Europeans, three companics of Sepoys, 50 Lafcars or Indian failors, and io Marmutty men or pioneers to clear the roads, together with two pieces of cannon, fix pounders. On this expedition the major exerted his utmof diligence to overtake his antagonif, and fpent a very confiderable face of time in the purfuit ; for thoush he fet out on the 6th of July, lie did not return to Muxadabad till the rit of September. Mr Law, however, had the good furtune to efcape; but though the major did not fucceed in what was propofed as the principal end of his expeditio:1, he was, neverthelefs, fays Ir Ives, of coniderable fervice to the company and to his country in general. He had ouliged Ramnarain, the molt powerful rajah in the country, to fwear allegiance to Meer Jaflier; he laid open the interior itate of the northern provinces; and, in cotajunction with Mr Johnfone, gave the company fome inlight into the faltpetre bufinefs, from which fuch advaniages have fince been derived to the public.

Bef re the return of Major Coote, Admiral Pucock Death of had fucceeded to the command of the Reet, in confe- ditn al quence of the deceafe of Admiral Watfon, who died on Wation. the 16 th of Augult. The joy of the Britih was confiderably damped by the lofs of this gentleman, who had gained a great and deferved reputation both in the military line and every other. News were alfu received, that the Frencli had been very fuccefiful on the coaft of Coromandel. Salabat-Ling, as has already been obferved, had applied to the Englih for alfitlance againft the French; but às they were presented fro:n performing their agreement by the difater at Calcutta, he found himfelf under a neceffity of accommodating the differences with his former friends, and to admit them again into his fervice. M. Bulfy was now reinforced by the troops under Mr Law; who
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had

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furiz. haj collkefod as many Europeans in his journey as
s: Succes of the French on the Co romandel coaf. made up 500 with thofe he had at firt. With thefe he undertook to reduce the Englith factories of Ingeram, Bandermalanka, and Vizagapatnam. As none of the two former places were in any fate of defence, the greatcit part of the company's effects were put on mipboard on the firlt alarm; but as Vizagapatnam was garrifoned by 140 Europeans and 420 Scpoys, it was fuppofed that it would make fome defence. If any was made, however, it appears to have been very tritling; and by the conquelt of this the French became mafters of all the coafts from Ganjam to Maffulipatnam. In the fouthern provinces the like bad fucce!s attended the Britih caufe. The rebel Polygars having united their forces againft Mazuphe Cawn, obtained a complete victory over him; after which the Englifh Sepoys, being prevailed upon to quit Maeura, the conqueror feized upon that city for himfelf.

In the begiming of 1758 , the French made an attempt on 'rinchinopoly. The command was given to M. d'Autreuil, who invefted the place with 900 men in battalion, with $4 c 00$ Sepoys, 100 huffars, and a great body of Indian horfe. 'Irinchinopoli was then in no condition to withftand fuch a formidable power, as moft of the garrifon had gone to befiege Madura under Captain Caillaud; but this commander having received intelligence of the danger, marched back with all his forces, and entered the town by a difficult road which the enemy had neglected to guard; and the Fremeh generai, difconcerted by this fuccefsful manceuvre, drew off his forces, and returned to Pondicherry.

This fortunate tranfaction was fucceeded by the fiege of Madura, in which the Englifh were fo vigoroufly repulfed, that Captain Caillaud was obliged to turn the fiege into a blockade in order to reduce the place by famine. But before any progrefs could be made in this way, Mazuphe Cawn was prevailed upon to give it up for the fum of 170,000 rupces. A large garrifon of Sepoys was again put into the place, and Captain Caillaud returned to Trinchinopoly.

An unfuccefiful attempt was no:r made by Colonel Ford on Nellore, a large town furrounded by a thick mud wall, with a dry ditch on all fides but one, where there is the bed of a river always dry but in the rainy feafon. The enterprife is faid to have proved unfuccefsful through the unheard of cowardice of a body of Sepoys, who having fheltered themfelves in a ditch, abfolutcly refufed to fir a ftep farther, and rather chofe to allow the reft of the anny to march over them to the affault, than to expofe themfelves to danger. Several other enterprifes of no great moment were undertaken; fut the event was on the whole unfavourable to the nglin, whofe force by the end of the campaign was reduced to 1718 men, while that of the French amounted to 3400 Europeans, of whom 1000 were fent to Pondicherry.

Both parties now received confiderable reinforcements from Europe; Admiral Pocock being joined on the $24^{\text {th }}$ of March by Commodore Stevens with a fquadron of five men of war, and the French by nine men of war and two frigates, having on board General Lally with a large body of troops. The Englifh admiral no foonor found himfelf in a condition to cupe with the enemy
than he went in-queft of them; and an endagement took place, in which the French were defeated with the lofs of 600 killed, and a great many wounded, while the Englith had only 29 killed and 89 wounded. The former returned to Pondicherry, where they landed their men, money, and troops. After the battle three of the Britif captains were tried for mibehaviour, and two of them difmiffed from the command of their thips. As foon as his veffels were refitted, the admiral failed again in queft of the enemy, but could not bring them They are to an action betore the 3 d of Augult, when the French deteated a were defeated a fecond time, with the lofs of 251 kill . fecond time ed, and 602 wounded.

Notwithfanding this fuccefs at fea, the Englih were greatly deficient in land forces; the re-eftablithment of their affairs in Bengal having almoft entirely drained the fettlements on the coaft of Coromandel of the troops neceflary for their defence. The confequence of this was the lofs of Fort St David, which General Lally re. Take Fort duced, deftroying the fortifications, demolifhing alfo ${ }^{\text {St }}$ Uavid. the adjacent viliages, and ravaging the country in fuch a manner as filled the natives with indignation, and in the end proved very prejudicial to his affairs. He proved fucceffful, however, in the reduction of Devicottah, but was obliged to retreat with lofs from before Tanjore, his army being greatly diftreffed for want of provifions; and money in particular being fo deficient, that on the 7 th of Augult the French feized and carried into Pondicherry a large Dutch hip from Batavia. bound to Negapatnam, and took out of her about 5000 l. in fpecie.

From this time the affairs of the French daily declined. On their retreat from Tanjore, they abandoned the illand of Seringham; however, they took Tripaffore, but were defeated in their defigns on the important poft of Chinglapet, fituated about 45 miles fouthweft of Madras. Their next enterprifes on Fort St George and Madras were equally unfuccefsful. The latter was befieged from the 12 th of December $175^{8}$ to the 17th of February 1759, when they were obliged to abandon it with great lofs; which difalter greatly contributed to deprefs their fpirits, and abate thofe fanguine hopes they had entertained of becoming mafters in this part of the world.

The remainder of the year 1759 proved entirely favourable to the Britifh arms. M. d'Ache the Fronch admiral, who had been very roughly handled by Admiral Pucock on the $3^{d}$ of Augult $175^{8}$, having refitted his fleet, and being reinforced by-three men of war at the illands of Mauritius and Bourbon, now ventured once more to face his antagonit, tiho on his part did not at all decline the combat. A third battle enfued French deon the roth of September 1759, when the French, not iearers a withtanding their fuperiority, both in number of mips ${ }^{\text {third time }} \begin{gathered} \\ 4 \text { dmira }\end{gathered}$ and weight of metal, were obliged to retreat with con- Puccek. fideratle lofs; having 1500 men killed and wounded, while thofe on board the Englifh Heet did not excced 569. By the 17 th of October the Englifh fleet was completely refitted; and Admiral Pocock having been joined by a reinforcement of four men of war, foon after returned to England.

All this time the unfortunate General Lally had been employed in unfucceffful endeavours to retrieve the affairs of his countrymen : lill, however, he attempted to act on the ofenfive ; but his fate was at lalt decided


Ey laying fiege to Wandewath, which bad lately been taken by Culonel Coote. The advantage in numbers was entircly in favour of the French general ; the Eng. lifh army confifting only of 1700 Europeans, including artillery and cavalry, while the French amounted to 2200 Eurorean. The auxiliaries on the Englifh fide were 3000 black troops, while thofe of the French amounted to 10,000 black troops and 300 Caffres; nor was the odds lefs in proportion in the artillery, the Englift bringing into the field only 14 pieces of cannon and one howitzer, while the French had 25 pieces in the field, and five on their batteries againft the fort. The battle began about 11 o'clock on the 22d of January 1760 , and in three hours the whole French army gave way and fled towards their camp; but quitted it on finding themfelves purfued by the Englifh, who took all their cannon except three frnall pieces. They collected themfelves under the malls of Cheltaput, about 18 miles from the field of battle, and foon after retired to Pondicherry. Colonel Coote caufed the country to be watted to the very gates of this fortrefs, by way of retaliation for what the Frencl had done in the neighbourhood of Madras. He then let about the fiege of Cheltaput, which furrendered in one day; a confiderable detachment of the enemy was intercepted by Captain Smith; the fort of Timmery was reduced by Major Monfon, and the city of Arcot by Captain Wood. This laft conqueft enabled the Englifh to reftore the nabob to lis dominions, of whicl, he had been deprived by the French; and it greatly weakened both the French force and intereft in India. M. Lally, in the mean time, had recalled his forces from Seringham, by which means he augmented his army with $j 00$ Europeans. All thefe were now thut up in Pondicherry, which was become the lalt hope of the French in India. 'Yo complete their misfortunes, Admiral Cornilh arrived at Madras with fix men of war; and as the French had now no fleet in thele parts, the admiral readily engaged to co-operate with the land forces. The confequence was the reduction of Carical, Chellambrum, and Verdachellum, by a ftrong detachment under Major Monfon; while Colonel Coote reduced Permucoil, Alamperva, and Waldour. Thus he was at laft enabled to lay fiege to Pondicherry itfelf. Previous to this, however, it had been blockaded by fea and land, which reduced the place to great ftraits for want of provifions, and induced a mutinous difpofition among the garrifon. The batteries were noi opened till the beginning of December 1760; and the place capitulated on the $15^{\text {th }}$ of January 176 I , by whicb an end was put to the power of the French in this part of the world.

While the Englifh were thus employed in effectua? ly reducing the power of their rivals in every part of India, Meer Jaffier, the nabcb of Bengal, who had been raifed to that dignity by the ruin of Surajah Dowla, found himfelf in a very difagreeable fituation. The treafure of the late nabob had been valued at no lefs than 64 crore of rupees, about 80 millions fterling; and in expectation of fuch a vait fum, Meer Jaffier had no doubt thoughtlefsly fubmitted to the enormous exactions of the Englifh already mentioned. On his acceffion to the government, however, the treafure of which he became mafter fell fo much fhort of expectation, that he could by no means fulfil his engagements
to them and fulp!y the expences of gevermment at: the fome time. 'This foon reduced hime to the neceffity of mortgaging his revenues to fupply prefent demands; and by this rumous expedient he put it out of his own power ever to extricate himfeit. In this dilemma his grandces becane factious and difcontented, his army mutinous for want of pay, and be rendered himfeli odious to his fubjects by the exactions he was neceflitated to lay upon them. The Englith, who for their own intereft had raifed him to the fupreme power, no fooner found that he was incapable of anfwering their purpofe any longer, than they began to fcheme againlt him; and in order to have fome colour of reafon for Shameful pulling down the man whom they had juft fet up, they behaviour either invented or gave ear to the moft malicious ca-iin towards lumnies againft him. The charges brought againft him. him were flortly thefe: 1. 'l hat foon after his advancement he had refolved to reduce that power which raifed him to the dignity. 2. That, to effect this, he affalfinated or banifhed every perfon of importance whom he fufpected of being in the Eaglifh intereft. 3. That he negociated with the Dutch to introduce an armament for the expulfion of the Englith. 4. That he had in different inftances been guilty of the deepent deceit and treashery towards the Englith, his beft benefactors and allies. 5. That at three different periods the Englifh commander in chief had been bafely deferted both by the nabob and his fon, when he and the troops were hazarding their lises for them. 6. That he meditated a fecret and Ceparate treaty with Shalı-Zaddah, the Mogul's fon, and had intended to betray the Englif to him. 7. That the whole term of his government had been one uninterrupted chain of cruelty, tyranny, and oppreffion. 8. That he meditated, and was near carrying into exccution, an infamous fecret treaty with the Mahrattas, which would have proved the total deftruction of the country if it had taken place. 9. That he threw every poflible obitruction in the way of the collection of the Englifh tunkas or affigmments upon lands. 10. That he encouraged the obftructions given to the free currency of the Englith liccas; by which the company fuffered heavy loffes. it. That by his cruelties he had rendered it fcandalous for the Englifh to fupport his government any longer; and, 12. That by his mifcondue, he bad brought the affairs of the company as well as his own into the utmoft danger of ruin.

In what manner thefe charges were fupported it is difficult to know, nor perhaps were the accufers very folicitons about the frength of their evidence. This feems the more probable, as the accufations of cruelty were, in forme inftances at leaft, void of foundation. On the $13^{\text {th }}$ of Junc 1760 , Mr Holwel wrote from Calcutta to Mr Warren Harings, that by exprefs he had received intelligence of the murder of the princeffes of Aliverdy Khan and Shah Amet, in a molt inhuman manner, by Meer Jaffier's orders. He was faid to have fent a jemmatdaar with 100 horfe to Jefferaut Klan to carry this bloody fcheme into execution ; with feparate orders to the jemmatdaar to put an end to their lives. He refufed acting any part in the tragedy, and left it to the other; who carried them out by night in a boat, tied weights to their legs, and threw them overboard. They fruggled for fome time, and held by the gunwalc of the boat; but byftrokes on itiois heads,

1ndia. and cating off their hands, they were at laild forced off and dro.rned. In like marner we were tuld that many others of Surajah Dowla's relations had perihed: yet when it was thought proper to replace Meer Jallier is I马ót, all thefe dead perfons were found alive excepting two. It mult alfo be remembered, in behalf of the unfortunate nabob, that befides the fums exacted of him by the Englif at his acceftion, he had ceded to them a large extent of territory, and granted them formany innmunities in trade, that he had in a manner deprived hinfel! of all his refources; and it was impollible for lim to defray the neceffary expences without either ex. torting money from his fubjects, or infringing the prisileges he had lo inconfiderately granted.

Different accounts of his de polition.

There were tro accounts of this remarkable revolution publidied, materially differing from one another. The firf was given in a memorial drawn up at a confultation a: irurt William, November 10. 1760. where were prefent Herry Vanfittart, Eff. prefilent; William Ellis, B. Sumner, William MI-Guire, Henry Yereit, aad Henry Smyth, Efqs. "We refolved (lays the governor) to give the nahob the next day ( 0 -iober 19. у चóo) to retlect upon the letters I had delivered him, propoling fome meafures for regulating thele abufes. I heard nothing from him all that day; but found by my intelligence that he had been in council at his old ad. vifers, whofe advice, I was fire, would be contrary to the welfare of the country and of the company: I therefore determined to aet immediately on the nabob's fear. There could not be a better opporiunity than the night of the sth offered, it being the conclution of the Gentoo fealt, when all the principal people of that caft would bo pretty well fatigued with their ceremonies. Accordingly I agreed with Colonel Caillaud, that he fnould crofs the river with the detachasm berween three and four in the morning ; and having joined Coffim Ali Khan and his people, march to the nabob's palace, and furround it juft at daybreak. Being extremely defirous to prevent difturbance or bloodhed, I wrote a letter to the nabot, telling him, I had been wating all the day in expectation that he would have fettled the uryent af. fairs upoin which I conferred with him yeiterday; but his having favoured me with no anfwer, plainly thowed that all I could reprefent to him for the good of his country would have no effec?, as long as his evil coun. fellure were about his perfon, who would in the end deprive him of his government and ruin the company's aficirs, For this reafon 1 had fent Colonel Caillaud with forces to wait unon him, and to expel thofe bad counfellors, and place his aftairs in a proper ttate, and I rould thortly follorw. 'This letter I gave to the co. loncl, to find to the nabob at fuch a time as he mould thirk molt expedient. Meafures were takern ot the farne time for feizing his three tuworthy miniters, and to place Collim Ali K゙lıan in the full management of all the altairs, in quality of deputy and fuccelior to the navob.
"The necffary preparations being made with all casc and fecrecy pollible, the culonel embarked wit!! th. troops, juined Coffim Ali Khan without the laat aldrm, and marched into the cours-yard of the palace juht at the proper indant. 'T he ynues of the inner count bein! mut, the colonel forsser his men withont, and
 sags, and long thremenced $t^{2}$ as he woud make what
reliftance he could, and take his fate. The colon-1 Irdia, forbore all hoftilities, and feveral melages paffed between him and the nabob. 'lhe aliair remaired in this doubtful fate for two hours, when the neos', finding his pernitting was to no purpofe, feat a mellage to Coilmis Ali Khan, informing hin that he was ready to fend the feals and all the erfigns of dignity, pravided he would agree to take the whole charge of the government upon him, to difcharge all arrears due to the troops, to pay the ufual sevemue to the liing, to lave his life and bonowr, and to give him an allowance fulficient for his mainzenance. All thefe conditions being agreed to, Colfim Ali was proclaimed; and the old nabo's came out to the colonel, declaring that he dependel on him for his life. The troops then teok: poffetlion of all the gates; and the oli nabols was tuld, that not only his perion was refe, but itis govermment too if he plealed, of thich it was never intended to deprive him. He anferered, that he had now no mona bufinets in the city, where he thouid be in continual danger from Cofim Ali Khan; and if fee was permit. ted to go and live at Calcutta, he fiould be coniented. Cotim Ali Khan was now placed on the mufnud, and the people in general feemed much pleafed with the revolution. The old nabob did not think himbitf fatc even for one night in the city. Collim A!i Khan funplied him with boats, and permited him to take atray about 60 of his family, with a reaionable quantisy of jewels. He begged that he might lleep in his boat that night; which he accorcingly did, and on the morning of the 32 d of October he fet cut for Calcutta, and arrived there on the $29 t \mathrm{~h}$. He was net by a deputation from the council, and treated with every mark of refpect due to his former digrity."

The fecond account of this affair was not publilied sill the 1 sth of Marcl2 :762, and was figned Eyre Coote, P. Amyatt, lohn Cawnac, W, Eliis, S. Batfon, HI. Verelit. "In September 1760 (lay they), when there was not the leaft appearance of a supture o: difgult between us and the rabob, but friendithip and harinony fubfifting, Mecr Corlim Khan his fon-in-law same down to Calcutta, and having faid a flort ime returned to Moorfhedabad. A few days after, Mr Var!littart went up to that city on the pretence of a vifit to the nabob Meer Jaffier. Colonel Caillaud, with 203 Europians and fome Sepoys, attended him ; who, it was pretended, were going to join the army at Patna. When Mr Vanfittatt arrived at Moradbaug, the nabob paid hins two vifits; at the lalt of which Mr Vanfitart gave him three letters, propofing the reformation of the abufes in his government, infilted on his naming fome perfor among his relations to take charge of the fulah. flip, and particularly recommended Coflim Ali Khan, who was fent fer, and the nabob defired to flay till he came: liut the nebob being greatly fatigued, was fufo fered to deprart to his palace. The night and following day paffed in concerting meafures with Cofim Ali hro4 to put in esecution the plan before agreed on is Calcutta, where atreaty was ilgned for this purpofe. In confequence of thele deliberations, our troops croffed the river next nighr, and being joined by Coflim and his party, furrounded the nabob's palace. A letter from Nr Vanfittart was fent in to the rabob, demand. ing his compliance with what han been propofed to him, 'Io this the naoob returned fur anfwer, 'that be

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India. never expected fuch ufage from the Inglift ; that while a force tras at his gates, he would enter into no terms.' A mefiage was fent in, that if he did not direatly comply, they fhould be obliged to 1 torm the palace. Allo-nill-ed and terrified at this menace, he opened the gates, exclaiming, that 'he was betrayed; that the Englifts were guilty of perjury and breach of faith; that he perceived their deligtos againit his govermment; that he had friends enough to hazard at leatt one battle in his defence: but although no oaths were facred enough to hind the Englifh, yet as he had fworn to be their faithful friend, he would never fwerve from his engagement, and rather fuffer death than draw his fword againft them." So fufpicions was he of being fold, that he defired to know what fum of money Coffim Ali Khan was to give for the fubahfhip, and he would give half as much more to be continned. He hoped, however, if they intended to dethrone him, that they would not leave him to the mercy of his con-in-law, from whom l:e feared the worlt; but wifhed they would carry him from the city, and give him a place of fafety in Calcutta. "This laft requeft of the nabob was conftrued in the light of a voluntary refignation. Our troops took folfeffion of the palace; Meer Coffim was raifed to the mufnud; and the old nabob hurried into a boat with a fer of his domeftics and necellaries, and fent away to Calcutia in a manner wholly unworthy of the ligh rank he fo lately held, as was alfo the feanty fubfiftence allowed him for his maintenance at Calcutta by his fon-in-law. Thus was Jaffier Ali Khan depofed, in l, reach of a treaty founded on the moll folemn oaths, and in violation of the national faith."

According to this account, the fervants of the company, who were the projectors of the revolution, made no fecret that there was a prefent promifed them of 20 lacks of rupees from Colfm, who was defirous of making the firft act of his power the affalfination of Jaffier, and was very much difpleafed when he found that the Englih intended gising him protection at Calcutta.

It could fcarce be fappofed that Meer Coffim, raifed to the nabobinip in the manner we have related, could be more faithful to the Englifh than Meer Jatfier had bcen. Nothing advantageous to the interefts of the company could indeed he reafonably expeited from fuch a revolution. No fucceffor of Meer Jatier could be more entirely in fubjection than the late nabob, from his natural imbecility, had been. This lall confideration had induced many of the council at firf to oppofe the revolution; and indeed the only plaufible pretence for it was, that the adminiflration of Meer Jaifier was fo very weak, that, unlefs he was aided and even controuled by fome perfons of ability, he himfelf muft foon be ruined, and very probably the interelts of the company along with him. Mrer Coffim, however, was a man of a very different difpofition from his father-inlaw. As he knew that he had not been ferved loy the Englith out of frienditip, fo he did not think of making any return of gratitude; but inftead of this, conlidered only how he could mont eafily get rid of fuch troublefome allies. For a whi'e, however, it was neceffary for him to diffemble, and to take all the advantare be could of the power of his allies whild it could be ferviceable to nim. By their affeance he cleared his dominions of invaders, and ftrengthened his fron-
tiers againft them ; itc reduced, by means of the fame athiftance, the rajahs or independent Indian chiefs who had rebelled in the time of his predeceffor, obliging them to pay the ufual tribute; by which means he repaired his finances, and thereby fecured the difeipline and fideity of his troops. Haring thus, by the alliftance of the Englifh forces, brought his goverument into fubjection, he took the moft effectual means of fecuring himfelf againt their power. As the vicinity of his capital, Musadabad, to Calcutta, gave the Englith factory there an opportunity of infeecting his actions, and interrupting his defigns when they thought proper, he took up his refidence at Mongheer, a place 200 miles farther up the Ganges, which he fortified in the beft and mof expediticus manner he could. Being very fenfible of the adrantages of the European difcipline, he refolved to form his army on a neis model. For this purpofe be collected all the Armenian, Perfian, Tartar, and other foldiers of fortune, whofe militery characters he fuppofed might ferve to raife the finits of his Indian forces, and abate their natural timiditr. He alfo carefuliy collected every wandering Europear who had borne arms, all the Sepoys who had been difnitial from the Englifh fervice, diftributing them among his rroops, in order to teach them the Englih exercife. Heclanged the fathion of the Indian murkets from matchlocks to firelocks; and as their cannon were almolt as deficient as their fmall arms, he procured a pattern of one from the Englifh, by which he foon formed a train of artillery; and having thus done every thing in his power to enable himfelf to withftand the Englinh by force of arms, he refolved alfo to free his court from their emiffaries, by imprifoning or putting to death ere. ry perfon of any confequence in his dominions who had fhown any attachment to tbeir intereft.

His next flep was to free himfelf from fome of thofe reftraints which his predeceffor Meer Jaffier, and even he himfelf, had been obfiged to lay upon the trade of the country, he order to gratify the avarice of his -European allies. At his acceffion indeed he had ceded to the company a traft of land worth no lefs than 700,0001 . annually, befides 70,0001. a-year on other accounts. All this, however, was not fufficient; the immunities granted them in trade were of fill worle confequences than even thofe vaft conceffions. He knew by experience the diftrefs mbich thefe immunities had brought upon his predeceffor, and therefore determined to put an end to them. "In purfuance of He bays this refolution, he began, in the year 1762 , every-duties on where to fubject the Engliff traders to the payment hifh Engof certain duties throughout his dominions, and required that their difputes, if beyond the limits of their own jurifdition, fhould be decided by his magifrates. This gave fuch an alarm at Calcutta, that, in November 1762 , the governor Mr Vanfittart waited on him in perfon at Mongheer, in order to expoftulate with him upon the fubject. The nabob anfwered his remonftrances in the following manner. "It (faid he) the fervants of the Englihh company were permitted to trade in all parts, and in all commodities, cuftom free, as many of them now pretend, they mult of courfe draw all the trade into their own hands, and my cuftoms would be of fo little value, that it would be much more for my intereft to lay trade entirely open, and collect no cuftoms from any perfon whatever upon

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frai:a. any kind of merchandife. This would draw a number of merchants into the country, and iucreafc my levenucs by encouraging the cultivation and manufacture of a large quantity of goods for fale, at the fame time that it would effectually cut off the principal fubject of difputes which had difurbed the good underftanding between us, an obje $t$ which I have more than any other at heart."

By thefe intimations Mr Vanfittart was very much difconcerted; nor indeed was it in any perfon's power to devife a plaufible anfwer. What the nabob had threatened was evidently in his power; and though he had laid the trade entirely open, no reafonable fault could have been found with him. The proceeding, however, tended evidently to deftroy the private trade carried on by the gentlemen of the factory; and even to prejudice, as they faid, that of the company itfelf. Mr Vanfittart therefore thought proper to fubmit to certain regulations, by which the trade of the Englifh was put under certain reftrictions.

This new agreement being inflantly put in execution on the part of the nabob, excited the utmoft indignation at Calcutta. On the 17 th of January 1763 , the council paffed a refolution, difavowing the treaty made by the governor, and affirmed that he affumed a right to which he was by no means authorized; that the regulations propoled were difhonourable to them as Englifhmen, and tended to the ruin of all public and private trade; and that the prefident's iffuing out regulations independent of the council was an abfolute breach of their privileges. They fent orders therefore to all the factories, that no part of the agreement between the governor and nabob ihould be fubmitted to. Application was again made to Meer Coffim to perfuade him to a third agreement ; but before the fuccefs of this negociation could be known, hoflilities commenced on the part of the Englifh.
The city of Patna taken by the Englifh but inmediate. ly after retaken.

Fing ifh deputies.

There was at that time in the city of Patna (fituated on the Ganges, about 300 miles above Calcutta), a fortified factory belonging to the Eall India company, where were a few European and Indian foldiers. By this factory the city was fuddenly attacked on the 25 th of June ${ }^{1} 76_{3}$, and inftantly taken, though it was defended by a ftrong garrifon, and the fortifications had been newly repaired. The governor and garrifon fled out into the country on the firft appearance of danger; but perceiving that the viftors took no care to prevent a furprife, he fuddenly returned with a reinforcement from the country, retook the rity, and either cut in pieces or drove into their fort all the Englih who were in it, after having been only four hours in poffeffion of the place. The Englifh, ditheattened by this difater, did not now think themfclves able to defend their fort againt the Indians; for which reafon they left it, with a defign to retreat into the territories of a meighbouring nabob; but being purfued by a fupcrior force, they were all either killed or taken.

This piece of perfidy, for fuch it certainly was, the mabob sepaid by another, viz. nlaughtering the deputics who had been fent him by the council of Calcutta to treat about a new agreement with regard to conmercial afiairs. They fet out from Mongheer on the ${ }_{24}$ th of lune, having been unable to bring Meer Coffim to any termis; and thcugh he furninied them with the
ufunl pafports, vet, as they were paffing the city of Muxadabad, they found themfelves attacked by a number of troops affembled for that purpofe on both fides of the river, whofe fire killed feveral gentlemen in the boats. Mr Amyatt, the chief of the embafiy, landed with a few Sepoys, whom he forbade to fire, and endeavoured to make the enemy's troops underiland that he was furnified with the nabob's paffports, and had no delign of committing any hoffilities; but the enemy's horfe advancing, fome of the Sepoys fired notwithftanding Mr Amyatt's orders to the contrary. On this a general confufion enfued, and Mr Amyatt, with mott of the fmall party who attended him, were cut in pieces.

Thefe acts of treacherous hollility were foon followed by a formal declaration of war. Meer Jaffier, not-Meer Jaf. withltanding the crimes formerly alleged againft him, fier again was proclaimed nabob of Bengal, and the army im- proclaimed mediately took the field under the command of Major ${ }^{\text {nabob. }}$ Adams. The whole force, however, at firf confiled $\mathrm{Ma}_{\mathrm{aj}}{ }^{97}$ only of one regiment of the king's trcops, a few of Adams the company's, two troops of Europcan cavalry, ten marches companies of Sepoys, and 12 pieces of cannon. Thefe Meer Cof very foon came to action with the enemy; and having fim. got the better in two filimilhes, cleared the country of them as far as Caflimbuzar river, a branch of the Ganges, which lay between Calcutta and Muxadabad, or Moorfhedabad, the capital of the province.
The war was now carried on with uninterrupted fuccefs on the part of the Englifh ; nor does it appear that all the pains taken by Meer Coffin to difcipline his troops had made them in the leaft more able to cope with the Europeans. The Englih were fuffered to pals the river without oppofition; but an arny of 10,000 Indians were advantareoufly pofted between the river and the city. Thefe were entirely defeated, The Inand Major Adams pufhed on directly for the capital. dians deIn his way he found the Indians again ftrongly pofted leated. with intrenchments is feet high, and defended by a numerous artillery. This ftrong poft was taken by itratagem; a feint being made with a fmall body of troops againft that part where the enemy had collected their greatefl ftrength. Thus the attention of the enemy was drawn entirely to that place, without regarding others where no attack was apprehended. The greatelt part of the Englifh army, however, had in the night-time marched round the Indian fortification, and by daybreak made a furious alfault on a place where there was only a flight guard. Thefe inftantly fled; the intrenchments were abandoned; and the city, which was protected only by them, fell of courfe into the hands of the conquerors.
This fuccefs of the Englifh ferved only to make them redouble their diligence. They now penetrated into the heart of the province, crofed the numerous branches of the Ganges, and traverfed moralles and forefts in queft of their enemy. Meer Collim, on the other hand, was not wanting in his defence; but the utmoll efforts he could ufe were totally infufficient to flop the career of an enemy fo powerful and now flufhed with victory. The two armies met on the banks of a river called Nu- Neer Cornas Nullas, on the 2 d of Auguft 1963 . The Indians fim entirehad chofen their polt with great judgment, and had y ueieated much more the appearance of an European army than tivinas ever was obferved before, not only in their arms

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Inha. and accoutrements, but in their divifion into brigadec, and even in their cloathing. The battle was much more obdinate than ufual, being continued for four hours; but though the Indian army confifted of no fewer than 20,000 horfe, and 8000 foot, the Englifh proved in the end victorious, and the enemy were obliged to quit the field with the lofs of all their cannon.

From this time the Indians did not attempt any reguiar engagement with the Englith. They made a ftand indeed at a place called Auda Nulla, which they had fortified in fuch a manner that it fermed proof againit any fudden attack. But here alfo they fuffered themfelves to be deceived in a manner fimilar to that abovementioned, and the place was taken with great flaughter. They now abandoned a valt tract of country; and though there were feveral very defenfible polts one behind another, fo much were they dilheartened by this misfortune, that they never attempted to fop the progrets of the Engliih, but laid open the whole country to the very gates of Mongheer.

The next operation was the fiege of Mongheer itfelf; which notwithftanding all the pains Meer Coffim had been at to fortify it, held out no more than nine days after the trenches were opened: fo that nothing now remained to complete the conqueft of Bengal but the reduction of the city of Patna. The unfortunate Meer Coffim, in the mean time, enraged at the irrefiftible progrefs of the Englif, vented his rage on the unhappy prifoners taken at Patna; all of whom, to the number of about 200 , he caufed to be inhumanly murdered. This villany was perpetrated by one Somers, a German, who had originally been in the French fervice, but deferted from them to the Englifh Ealt India company, and from the company to Meer Coffim. This affaffin, by the Indians called Soomeron, having invited the Englifh gentlemen to fup with him, took the opportunity of borrowing their knives and forks, on pretence of entertaining them after the Englih manner. At night, when he arrived, he flood at fome diftance in the cook-room to give his orders; and as foon as the two firf gentlemen, Mr Ellis and Luhington, entered, the former was feized by the hair, his head pulled backward, and his throat cut by another. On this Mr Lufhington knocked down the murderer with his fift, feized his fword, wounded one and killed two before he himfelf was cut down. The other gentlemen being now alarmed, defended thenifelves, and even repulfed the Sepoys with plates and bottles. Somers then ordered them on the top of the houfe to fre down on the prifoners; which they obeyed with reluofance, alleging that they could not think of murdering them in that manner, but if he would give the prifoners arms, they would fight them ; on which he knocked feveral of them down with barmboes. The conferquence was, that all the gentlemen were either for or had their throats cut. Dr Fullarion was the only perfon who efcaped, having received a pardon from the tyrant a few days bcfore the maffacre.

This inhumanity was far from being of any fervice to the caufe of Neer Coffim. Miajor Adams marched without delay from Mongheer to Patna; and as the place was but indifierently fortified, it could make but a fecble refilance. Thie cannon of the Englihi foon made a práticable breach, and in no longer time than V'ol. XI. Püt I.
eight days this great city was taken by fturm. Thus the nabob was deprived of all his fortified places, his army reduced to a fmall body, and himenelf obliged top 102 lly to Sujah Dowla nabob of Oude, who aÉted aske:, a: : grand vizier to the Mogul. Here he was hindly re- Benzai en. ceived, and an afylum promifed for his perfon, but ad. trely redtmittance was refufed to his army, nor would this prince ced by the confent at any rate to make his country a feat of wa:. The Englih were now entire mallers of Bengal ; for though Meer Jaffier was proctaimed nabob, it is not to be fuppofed that he had now any authority farther than What they pleafed to give him. Major Adams did not long furvive the conqueft of Patna, which was take: on the 6th of November 1763 ; he died in the month of March 1764.

Meer Colfim being thus driven out, an agent was fent from Calcutta to Sujah Dowla, propofing an alliance with him and the Nlogul, who was along with hin, and offering to affirt them againft Meer Collim or any Alliance other enemy who thould attempt an invafion of their propofed dominions; in return for which, it was expected that with suj in they hould declare themfelves open enemies to IVeer ${ }^{\text {Dowla. }}$ Coffim, and ufe their utmolt endeavours to feize and deliver him up with all his effects. This defign was communicated to Major Adarms on the 8th of Decem. ber 1763 ; but as he was next day to refign the command of the army, Major Carnac was defired to take the command upon him. and to watch the motions of Meer Collim, as well as to guard the dominions of Meer Jaffier againlt any hoftilities which might be attempted. It was alfo refolved, that in cafe Meer Coffim flould prevail upon the Mogul and Sujah Dowla to affift him, Major Carnac was defired to advance to the banks of the river Carumnaffa, and there oppofe the entrance of any hoftile army.

It foon appeared that the friendhip of the Englifh was not what Sujah Dowla defired. He confidered them as rapacious ufurpers, who having got a footing in the country under pretence of commerce, could be fatisfied with nothing lefs than the entire polfefion of it, to the ruin of the natural inhabitants. In the prorat beginning of February 1764 , therefore, it was known allance that Sujah Dowla had determined to affill Meer Coffim rejected by in attempting to recover Bengal. The prefident and rijah Dow. council on this wote him, that though they heard fuch ${ }^{13}$ a report, they could not believe it, confidering the former connections fubfifting between him ana the chiefs of the company, and were perfuaded he would not act in fich an utijult manner: but if it really was his intention to efpoule the caufe of Meer Collim, they informed him that they were refolved to keep Bengal free from troubles, and carry the war into the dominions of Sujzh Dowla himfelf. 'So this the nabob replied by enumerating the many favours couferred on the Engli!h by $\therefore$ Mogul. "Notwith Manding thefe (fays he) you have interfered in the king's country, poflelfed yourfelves of dillicts belonging to the sovernment, and turned out and eftablifhed nabobs at pleafure, without the confent of the imperial court. Since you have imprifoned dependants on the court, and expofed the government of the king of hings to contempt and difhoriour; fince you have ruined the trade of the nerchants of the country, granted protection in the king's fervants, injured the revenues of the imperial court, and crmined the inhabitants by your afts of violence; and D d
face

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Indis. fince you are continually fending freth people from Calcutta, and invading different parts of the royal dominions; to what can all thofe wrong proceedings be attributed, but to ans ablolute difregard to the court, and a wicked defign of feizing the country to yourfelves? If thefe diturbances have arifen from your own inproper defires, defilt from fuch behaviour in future; inrerfere not in the alfairs of government; withdraw your people from every part, and fend them to their own country; carry on the company's trade as formerly, and confine yourfelves to commercial affairs," \&zc. An@ther letter, much to the fame purpofe, was ient to Major Carnac ; but the prefident and council of Calcutta, inftead of paying any regard to the remonftrances of the nabob, determined to commence an immediate ard offenfive war againft him.

Notwithltanding this refolution, feveral dificulties

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Sir Hector Munro fuc ceeds Ma jor Adams. occurred in carrying on a war at this time. The principal were the death of Major Adams, whofe name had become formidable to the Indians, and the mutinous difpofition of the army. The former was obviated by the appointment of Colonel Hector Munzo, who, in military fkill, appeared nothing inferior to his predeceffor; and the mutinous difpofition of the fuldiery was got the better of by a moft fevere example of the mutineers, 24 of whom were blorn away from the mouths of cannon. Hofilities were commenced on the part of Meer Coffim, who cut off a fmall party of Englif troops, and fent their heads to the Rlogul and Sujah Dowla. An army of 50,000 men was collected, with a moft formidable train of artillery, fuch as might be fuppofed to follow an European army of equal numbers. This prodigious armament feems to have effaced all the caution of Meer Coflim; for though he had formerly experienced the bad effects of engaging the Englifh in a pitched battle, yet he now thought

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Defeats the Indians at Burard. way. The two armies met on the 22 d of Octuber 1,64 , at a place called Buxard, on the river Carumnaffa, about 100 miles above the city of Patna. The event was fimilar to that of other engagements with the Englift, to whom it never was pofible for any advantares either in fituation or number to make the Indians equal. The allied army was defeated with the lofs of 6000 killed on the fpot, 130 pieces of cannon, a proportionable quantity of military ftores, and all their tents ready pitched; while, on the fide of the conquerors, only 32 Europeans and 239 Indians were killed, and 57 Eurcpeans and 473 Indians wounded.

The only place of Arength now belonging to the allies on this fide the river was a fort named Chanda Geer. The reduction of this place, however, might well have been deemed impracticable, as it food on the top of a high bill, or rather rock, fituated on the very brink of the Ganges, by which it could be conftantly fumplied with provifions; and as to military ftores, it couid not ftand in need of any as long as ftones could be fround to pour down on the affailants. Notrithftanding all thofe difficulties, however, Colonel Munro caufed his foldiers advance to the attack; lut they were received with fuch volleys of fones, which the Indians threw buth with hands and fect, that they were repulfed in a very fhort time; and though the attack was renewed the nevt day, it was attended with no bet-
ter fuccefs; on which the Englifh conmander encamped with his army under ti:e walls of Benares.

Soon after this, Colonel iviunro being recalled, the command of the army devolved on Sir Robert Fletcher, a major in the company's troops. The navob, in the mean time, inllead of attacking the Englith army at once, contented himfelf with lending out parties of light horfe to akirmilh with their advanced polts, while the main body lay at the diltance of about 15 miles from Benares, which rendered it very dangerous for them to move from their place. On the $14^{\text {th }}$ of January 1765 , however, Sir Robert ventured at midnight to break up his camp under the walls of Benares, and to march off towards the enemy, leaving a party to protect that place againtt any attempt during his abfence. In three days he came up with the main body of Indians, who retreated before him; on which

108 he refolved to make another attempt on Clianda Geer, before which the late commander had been foiled. by Sur take His fuccefs would in all probability have been no bet-bert Flet. ter than that of his predeceflor, had not the garrifon cher. mutinied for want of pay, and obliged the commander to furrender the place.

The reduction of Chanda Geer was followed by that of Eliabad, the capital of the eremy's country, a large city on the Ganges, between 60 and 70 miles above Chanda Geer, defended by thick and high walls and a ftrong fort; foon after which Sir Robert was fuperfeded in the command of the army by Major Carnac. Sujah Dowla in the mean time had been Sujah abandoned by the Mogul, who concluded a treaty la affited with the Englif foon after the battle of Buxard. He miahrata did not, however, give himfelf up to defpair, but gathered together, with great afliduity, the remains of his routed armies; and feeing that his own territories could not fupply him with the requifite number of troops, he now applied to the Mahrattas for affiftance. But thefe people, though very formidable to the other nations of Indoftan, were far from being able to cope with the Englifh. On the 20th of May 1765 , General Carnac having affembled his troops, marched immediately to attack them; and having gained a com- and Sujat plete victory at a place called Ca!pi, obliged them to fowmita retreat with precipitation acrofs the Yumna into their own country.

Sujah Dowla, now deffitute of every refource, determined to throvy himfelf on the clemency of the Englifh. Previous to this, however, he allowed Meer Collim and the affaffin Somers to efcape; nor could any confideration ever prevail upon him to deliver them up. Thrte days after the battle of Calpi, the nabob furrendered himfelf to General Carnac, without ftipulating any thing in his own favour, farther than that he fhould await the determination of Lord Clive concerning him.

In the beginning of February this year died Meer Young Jaffier Ali Cawn, nominal rabob of Bengal. The bob of Be fucceffion was difputed betwixt his eldeft furviving fon gal hardly Najem il Doula, a youth of about i8 years of are, ufed by $t$ a grand fon by his eldeft fon Mitan, at that time only feven years old. As the Englith were in reality ablolute fovereigns of the country, it was debated in the council of Calcutta whether Meer Jaffies's fon fhould be allowed to fucceed, according to the cullom of the country,

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country, or the grandfon, according to the Englifh cuftom. The puint being carried in favour of Najem, it was next debated on what torms he thould be allmitted to the fucceflion. The late nabob, among other impofitions, had obliged himfelf to fuppoit an army of 12,000 horfe and as many foot. It was alleged on this occation, that he had not fulfilled his engagement; that he had difbanded moft of the troops; that at belt they were but an ufelefs burden, having never anfwered any purpofe in real fervice, for which reation the company had been obliged to augment their military eftablifament: it was therefore now judged expedient that the nabob fhould fettle a funs, upwards of $8=0,0001$. annually, on the company, to be paid out of the treafury : that he fhould allo difard his prime miniiter and great favourite Nuncomar, and receive in his place a perfon appointed by the council, who was to act in the double capacity of minifler and governor to ailift and initruct him. The council were alfo to have a negative upon the nomination of all the fupcrintendants and principal of ficers employed in collecting or receiving of the revenues; that he hould take their advice, and have their confent to fuch nominations whenever they thought proper to interfere in them. He was alfo to receive their complaints, and pay a due attention to them upon the mibehaviour of any of the officers who either were appointed already or chould be in time to come.

With thefe extravagant requifitions the young nabob was obliged to comply, though he had difcernment enough to perceive that he was now an abfolute Rave to the council at Calcutta. Theugh obliged by treaty to difmifs Nuncomar from the office of prime minifter, he fill continued to thow him the fame favcur, until at laf he was charged with carsying on a treafonable correfpondence with Sujah Dowla, for which the nabob was enjoined to fend him to Calcutta to take his trial. The unfortunate prince ufed every method to deiiver his favourite from the impending danger, but io no purpofe: he was obliged to fubmit to the mortification of having all his offers with regard to his releafe rejefted, though the committee at Caicuta afterwards thought proper to fet him at liberty without any trial.

Thefe extraozdinary powers, exerted in fuch a defpotic manner by the council of Calcutta for fuch a length of time, could not but at laft induce their fupetiors to circumfcribe them in fome degree, by appointing others who thould act independently even of this council, and who might be fuppofed to be actuated by more upright and honourable principles than had hitherto appeared in their conduct. The great character which Lord Clive has already gained in the eaft, juftly marked him out as a proper perfon for adjufting the affairs of Bengal. On the 3 d of May 1765 he arrived in the eaft, with full powers as commar:der in chief, prefident, and governor of Bengal. An unlimited power was allo committed to a felect committee, confifting of his lordhip and four gentlemen, to act and determine every thing themfelves, without dependence on the council. It was, however, recomn:ended in their infiructions, to confult the council in general as often as it could be dore conveniently; but the fole power of deternining in all cafes was left with them, until the troubles of E'engal flould be entirely ended. By thele

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gentlemen a plan of refurmation was inflantly fet about;
India. by which, however, violent difputes were occationed: but the committec, dilregalding thefe impotent efforts, exerted their authority to the full extent, feldom even acquainting the council with their tranfactions, and never allowing them to give their opinion on any occafion.
On taking the affairs of Bengal into thorough con-Suj h Dowe fideration, Lord Clive found that the fuccels of the $\mathrm{l}_{4}$ reftorcd. Britifh arms could be productive of nothing but wars; that to ruin Sujah Dowla was to break down the Atrongell barrier which the Bengal provinces could have againtt the incustions of the Mahrattas and other barbarous people to the weftward, who had long defolated the northern provinces; and the Mogul, with whon the company had concluded a treaty, was utterly unable to fupport himfelf, and would require the whole Englif. power in the eall to fecure him in his dignity. His lordihip therefore found it neceffary to conclude a treaty with Sujah Dowla. The Mogul was fatisfied by outaining a more ample revenue than he had for Affairs of fome time enjoyed; by which means he might be ena-Breal fetbled to march an army to Delhi to take poffefion of ti.d by his empire. For the company his lordllip obtained the oftice of duan or collector of revenues for the province of Bengal and its dependencies. 'Thus Sujah Dowla was again put in poffeflion of his dominions, excepting a fmall territory which was referved to the Mogul, and eftimated at 20 lacks of rupees, or 250,0001 . annually. The company were to pay 26 lacks of rupees, amounting to 325,000 . Nierling. They engaged alfo to pay to the nabob of Bengal an annual fum of 53 lacks, or 662.500 l . for the expences of government, and the fupport of his dignity. The remainder of the revenues of Bengal were allotted to the company, who on their part guaranteed the territories at that time in poifeffion of Sujah Dowla and the Mogul.
Thus the Eaft India company acquired the fovereignty of a territory equal in extent to the moft flourilhing kingdom in Europe. By all this, however, they were fo far from being enriched, that the diforder of their affairs attracted the attention of government, and gave the Britilh miniftry an opportunity at lafl of depriving them of their territorial poffeffions, and fubjecting the province of Bengal to the authority of the crown *. New misfortunes alfo fpeedily orsurred, and * See Eaff the company found a moft formidable enemy in Hyder India ComAlv, or Hyder Naig. This man, from the rank of a ${ }^{p a n y}$. common Sepoy, had raifed himfelf to be one of the War with moft confiderable princes in the empire of Indoftan. Hyder Aly, Being fenfible that the power of the Englifh was an infuperable bar to his ambitious defigns, he practifed on the nizam of the Deccan, and partly by promifes, partly by threats, engaged him to renounce his alliance with the company, and even to enter into a war againft them. As he had been at great pains to introduce the European difcipline among his troops, and had many renegadoes in his fervice, he imagined, that with the advantage of numbers he fhould certainly be able to srocope with his antagonins in the open field. In this, He isdehowever, he was deceived; for on the 26 th of Sep. - teated by tember $176_{7}$, his army was entirely defeated by Colo- olvnel nel Smith at a place called Errour near Trincomallee; after which the nizam thought it advilable to defert his

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Idia. rew ally, and conclude another treaty with the Engliih. Fro:n the latter, however, he did not oltain peace but at the expence of ceding to them the duamy of the Balegat Carnatic, which includes the dominions of Hyder Aly and fome petty princes.

Hydcr, thus deferted by his ally, transferred the feat of war to a mountainous couniry, where, during the year 1967 , nothing decifive could be effected; while the Indian cavalry was fometimes enabled to cut off the fupplies, and interrupt the communications of their antagonills. During thefe operations fome flups were fitted out at Bombay, which conveyed 400 European foldiers and about Soo Sepoys to attack Mangalore, one of Hyder Aly's principal fea-ports, where all his fhips lay. This enterprife proved fuccelsful, and nine flips were brought away; but too fmall a garrifon having been left in the place, it was almoft imu ediately after retaken, and all who were in it made prifoners by Hyder Aly.

In the mean time, an injudicious meafure, adopted by the Englim in their method of managing the army, proved not only of the utmof detriment to their canfe, but occafioned difgraces hitherto unheard of in the hiflory of the nation, viz. the defertion of officers from the fervice of Britain to that of a barbarous prince, and
the giving up of forts in fuch a flameful manner as could not but fuggelt a fufpicion that they had been betrayed.-The original caufe of all this mifchief was the appointment of field-deputies to attend the army, and to control and fuperintend the conduct of the commander in chief; and thefe, in the prefent inftance, being deeply concerned in the contracts for the army, took care to regulate its motions in fuch a manner as beft fuited their private intereft or convenience. Hyder Aly did not fail to improve the errors confequent upon this kind of management to his own advantage. General Smith had penetrated far into his country, taken Several of his fortreffes, and was in a fair way of becoming mafter of his capital, when all his operations were checked at once by the feld-deputies. His antagonift being thus allowed fome refpite, [uddenly entered the Carnatic with a numerous army of horle, ravaging and deftroying every thing at pleafure. Thus the Englifh were obliged to relinquifh all their conquefts in order to defend their own tersitorics; while this reverfe of fortune not only difcouraged the allies of the Englifh, but even produced in them an inclination to defert their caufe, and go over to Hyder Aly, while thole who remained faithful paid dearly for their attachment. The nabob of A rcot, the moll faithful ally the Englin ever had, fuffered extremely on this occafion. Hyder Aly had long entertained a violent enmity againft this prince; moft probably on account of his inviolable attachment to the Englifh. His dominions were therefore ravaged without mercy; and thus, while Hyder gratified his perfonal refentment againft him, he cut off from the Englifh one of the principal refources they had for carrying on the war.

On the return of the company's forces to the defence of the Carnatic, they found themfelves very little able to cope with their adverfary; for, befides the continuance of the fame caufes which had formerly contributed to their want of fuccefs, they had been very much weakened in their expedition. Hyder Aly had alfo the prudence to avoid a general engagement,
but frequently intercepted the convoys of the Englith, cut off their detached parties, and wearied them out with long and continual marches. The news of his fuccefs againt an enemy hitherto invincible by all the powers of India, fo raifed his reputation, that adventurers flocked to him from all parts; by which means his cavalry were foon increaled to upwards of 90,000 ; to which, however, his infantry bore no proportion.

Notwithftanding all his fuccers, it appears that the forces of Hyder Aly were altogether unable to cope with thofe of Britain, even when there was the greateft inaginable difparity of numbers. A detachment of the company's forces had made an affault upon a fort called Mulwaggle, in which they were repulfed with fome lofs. This, with the fmall number of the detachment, encouraged Hyder Aly to march at the head of a great part of his army to the protection of the fort. The commanding officer, however, Colonel Wood, did not hefitate, with only 460 Europeans and 2300 Sepoys, to attack his army, confifting of 14,000 horfe, 12,000 men armed with matchlock guns, and fix battalions of fepoys. The engagement lafted fix hours; when at laft Hyder Aly, notwithitanding his defe.. Aed b numbers, was obliged to retreat, leaving the field co-Colonel vered with dead bodies; the lofs of the Britih being Wrod. upwards of 300 killed and wounded. This engagement, however, was attended with no confequences affecting the war in general, which went on for fome time in the fame marner, and greatly to the difadvantage of the company. The divifions and difcontents among the officers and council daily increafed, the foldiers deferted, and every thing went to ruin. The revenues of the eftablifhment of Madras being at laft unequal to the expences of the war, large remittances were made from Bengal to anfwer that purpofe; and as thefe were made in a kind of bafe gold coin, the company is faid by that means alone to have loft 40,0001 . in the difference of exchange only. At laft Hyder Aly having given the Englih army the flip, fuddenly appeared within a few miles of Madras; which occafioned fuch an alarm, that the prefidency there were induced to enter into a negociation with him. The Indian prince, on his part, was very ready to hearken to propofals of peace upon any reafonable terms. An offenfive and defenive treaty was therefore concluded on the 3 d of April 1769, on the fimple condition that the forts and places taken on both fides fhould be reftored, and each party fit down contented with their own expences.

By this treaty it was particularly itipulated, that in cafe of either party being attacked by their enemies, the other fhould give them affiftance; and in this cafe even the number of troops to be fupplied by each was fperified. It foon after appeared, however, that the prefidency of Madras were refolved to pay very little regard to their engagements. Hyder Aly having in a little time been involved in a war with the Mahrattas, applied for affiftance, according to agreement ; but was refufed by the prefidency, who pretended to fear a quarrel with the Mahrattas themfelves. As the latter are a very powerful and warlike nation, Hyder Aly found himielf overmatched, and therefore applied feveral times to the Englifh for the affiftance he had a riglt to expect ; but was conflantly refuled on various pretences: which convinced him at laft that he could place

Pedia. no dependence on the friendhip of the Englith, and filled him with an inplacable hatred againft them, As foon, therefore, as he could make up his differences with the Mahrattas, he refolved to recover his lofes, and revenge himlelf on thofe faithlefs allies. With this view he applied himfelf to their rivals the French; whom no Indian nation ever found backward in fupplying them with the means of defence againft the Englith. By their means he obtained military ftores in the greateft abundance, a number of experienced officers and foldiers; and the European difcipline was brought to much greater pcrfection than even he himfelf had ever been able to bring it before this period, Thus, in a fhort time, imagining himfelf a match for the Mahrattas, he renewed the war ; and gained fuch decifive advantages, as quickly obliged them to conclude an advantageous treaty with him.

It now appcared that the Englim, notwithfanding their pretended ill-will to quarrel with the Mahrattas, had not the leaft hefitation at doing fo when their intereft was concerned. In order to underftand the fubfequent tranfactions, however, we muft obferve, that the Mahrattas, like other nations of Indoftan, were originally governed by princes called rajalk, who reigned at Setterah; and though in procels of time they came to be divided into a number of petty flates, yet they paid a nominal refpect to the ram-rajah, who had a right to affemble their chiefs, and order out their troops on any necefiary occafion. By degrees this dignity of ram-rajah or fou-rajah (as he was alfo called), became merely titular, the adminiftration being entirely poffefled by the paihwa or chancellor. This office being ufurped by one particular family, Nana-row, the reigning paifhwa, feized the ram-rajah and confined him in a fortrefs near Setterah. At his death he left two fons Mada-row and Narain-row; of whom the former, as being the elder, fucceeded him in the paiftlwafhip. Ionogee Boolla, or Bouncella, the immediate predeceffor of Moodagee Boolla, rajah of Berar, was one of the pretenders to the dignity of ram-rajah, as being the nearelt of kin ; at the fame time that Roganaut-row, called alfo Ragobah, uncle to Madasow himfelf, pretended to the paifhwallip. On this account the latter was confined by Mada-row, but who imprudently releafed him a little before his death, and even recommended to him in the molt affectionate manner the care of his brother Narain-row, who was to fucceed to the painwahip. The care he took in confequence of this recommendation was fuch as might eafily have been imagined; the anhappy Narain-row was murdered, and Roganaut-row the aflithin fled to Bombay; where, on promifing a ceffion of territory, he was protected and encouraged in his pretenfions. The Mahrattas remonftrated againft this behaviour; but the Englifh had determined at all events to profit by the civil diffenfions of the Indians, and therefore paid no regard to the juftice or injuftice of their caufe. The Mahrattas therefore not only made up their differences with Hyder Aly, as has been already mentioned, but became determined enemies to the Englif, at the fame time that a dangerous confederacy was formed among the moft powerful princes of India to expel from that part of the world thofe intruders whofe avarjce could be fatisfied with no conceffions, and
whom no ircaties could bind when it ferved ticir tuäi to break them.

The refentment of Hyder Aly was particulatiy directed againtt the prefidency of Madras for the reafons already given; he had alfo reccived fret! provocation by their cauling a body of troops march through his dominions without his leave, and that to the affiftance of a prince for whom he had no great friendthip; alfo by the capture of the Erench fettlement of Mahie, on the coalt of MIabar, which he faid was within his dominions, and confequently that the French were under his protection. His troops were therefore aftembled from every quarter, and the greateft preparations made for a powerful invalion. The prefidency of Madras in the mean time fpent their time in mutual al. tercations, neglecting even to fecure the palfes of the mountains, through which only an invafion could be made, until their active antagonilt, having leized and guarded thofe palfes, fuddenly poured out through them at the head of 100,000 men, among whom was a large invafion by body of European troops under French officers, and Iyder Alyo, commanded by Colonel Lally, a man of great bravery and experience in war.

The alarm was given on the 27 th of July 1780 that Hyder Aly's horfe were only nine milés diftant from Madras. The inhabitants inftantly deferted their houfes and tied into the fort; while the unreffifed barbarian burnt the villages, reduced the inferior forts, and prepared to lay fiege to the capital. It being norv abfolutely neceflary to make fome refiftance, meafures were taken for aftembling the troops; in doing which an exprefs was fent to Colonel Baillie, at that time at Gumeroponda, about 28 miles from Madras, to proceed from thence directly to Conjeveram with the corps under his command, where the main body was to meet him. But when the latter was under marching or- Unfortuders, the firlt regiment of caralry pofitively refufed to nate expemove without money; and as they perfifted in their dation of refulution, were at laft made prifoners and fent to Ma- Colonel dras. The main body, then, confifting of 1500 Europeans and 4200 Sepoys, under Sir Hector Munro, with their train of artillery, proceeded towards Conjeveram: and fuch were the fatigues of theis march, that 200 men belonging to the 73 d regiment were left lying on the road.. On their arrival at Conjeveram, they found the town in Hames, great bodies of the enemy's cavalry advancing on both flanks, and no appearance of Colonel Baillie's detachment. The march of this body had been impeded by a fmall river fwelled by a fudden fall of rain. On this occafion, the officer who gives the account of his difalter makes the following obfervation. "In this incident we have a moft remarkable proof and example of the danger ff procraftination, and on what minute circumitances and fudden fprings of the mind the fortune and the general itue of war may depend. Had Colonel Baillie paffed over the 'Tripaffore without halting, as fome advifed, and encamped on its fouthern inftead of its northern bank, the difafter that foon followed would have been prevented, and an order of affairs wholly different from that which took place would have fuccceded."

Hyder Aly having now raifed the fiege of Arcot, in which he had been employed, marched towards Conjeveram; in the neighbourhood of which he er:-

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Tippoo Salb, but requlfes him. tacked.
and next morning orders were given for the whole ar325 my to march; Colonel Fletcher's detachment being Is againat-difperfed in different parts of the line. From the
campeu, and in the courfe of feveral days, at different times, offered battle. On the 6th of September, he detached his fon Tippuo Saib with the Hower of his army to cut off the detachment under Colonel Baillie, who was now at Perrambaukam, a fmall village diftant from the main body about 15 miles, he himfelf remaining in the neighbourhood of Conjevcram, in order to watch the motions of Sir Hector Munro.

The detachment under Tippoo Saib confited of 30,000 horle, 8000 foot, with 12 pieces of cannon. Notwithflanding this fuperiority in number, however, they were bravely repulfed by Colonel Baillie's handful of troops; and a junction was effeeted with a detachment under Sir Robert Fletiher, fent by Sir Hector Munro on firf hearing the noife of the engagement.

This junction was effected on the gth of September, moment they began to march, the enemy played of their rockets, which, however, did but little execution; but about ten at night feveral guns began to open on the rear of the Englifh. Colonel Baillie, therefore, after fome proper manœuvres, caufed his troops form a line, while the enemy cannonaded them inceffantly with great execution. On this Colonel Baillie detached Captain Rumley with five companies of Sepoy greuadiers to form their guns; which fervice they would have undoubtedly accomplified, had not their march been interrupted by a torrent of water which at that time happened to be unfordable. Castain Rumley therefore returned about-half an hour after eleven, when the guns of the enemy wore heard drawing off towards the Englifh front, and a general alarm was perceived throughout their camp; owing, as was fuppofed, to their having received intelligence of the party that had been fent to form their guns. "From their noife, confufion, and irregular firing (fays our author), one would have imagined that a detachmento of our men had fallen upon them with fixed bayonets. At that critical moment, had a party of grenadiers been fent againft them, they would have routed without difficulty the whole of Tippoo's army. Having about ten o'clock in the evening advanced a fers hundred yards into an avenue, the detachment remained there in perfect filence till the morning.
"Colonel Fletcher being aked by fome officers, why Colonel Baillie halted? modelty anfwered, that Colonel Baillie was an officer of eftablifhed reputation, and that he no doubt had reafons for his conduct. It cannot, however, be concealed, that this halt afforded an opportunity for Tippoo Saib to draw off his cannon to a very frong poft by which the Englifh were obliged to pafs; and at the fame time of informing Hyder of their fituation, and fuggelfing to lim the expediency of advancing for the improvement of fo favourable a conjuncture.
"On the roth of September, at five o'clock in the morning, our little army marched off by the right in fubdivifions, having their baggage on their right flank and the enemy on their left. $\Lambda$ few minutes after fix two guns opened on their rear, on which the line halted a few minutes. Large bodies of the enemy's
cavalry now appeared on their right flans; and jun at the moment when the pagoda of Conjeveram appeared in view, and our men had begun to indulge the hopes of a refpite from toils and dangers, a rocket-boy was taken prifoner, who informed them, that Hyder's whole army was marching to the allftance of Tippoo. Four guns now opened on their left with great effect. So hot was the fire they fuftaincd, and fo henty the lofs, that Colonel Bailie ordered the whole line to quit the avenue, and prefent a tront to the enemy; and at the fame time difpatched Captain Rumley with ten companies of Sepoy grenadiers to form the enemy's guns.
"Within a few minutes after Captain Rumley had left the line, 'lippoo's guns werc filenced. Rumley's little detachment immediately took poffeffon of fout of the enemy's guns, and completely routed the party attached to them Captain Rumley, overcome with fatigue, ordered Captain Gowdie, the officer next in command, to lead on the party, and take pollettion of Is attacker fome more guns placed a few hundred yards in their front. But in a few minutes after, as they were advancing for this purpofe, a fudden cry was heard among the Sepoys, of horfe ! horfe! The camp followers, whofe numbers were nearly five to one of the troops under arms, were driven on a part of our line by the numerous and furrounding forces of Hyder Aly; who being informed of the embarralfing fituation of Colonel Baillie, had left his camp without Atriking his tents, with a view to conceal his march from the Englith. A great colfufion among our troops was the unavoidable confequence of this fudden onfet. The Europeans were fuddenly left on the field of action alone : and at that critical moment a detachment from the advanced guard of Hyder's army prefied on with great celerity between our line and Captain Rumley's party. The commanding officer, therefore, apprehenfive of being cut off from our little army, judsed it moll prudent to retreat.
"Colonel Baillie, when he was informed that an immenfe body of horfe and infantry was marching towards him, and that this was fuppofed to be Hyder's main army, faid, "Very well, we thall be prepared to receive them." Hyder's whole forces now appeared inconteftably in view; and this barbarian chief, who, as was obferved of the Roman general by Pyrrhus, had nothing barbarous in his difcipline, after dividing his guns agreeably to a preconcerted plan, opened from 60 to 70 pieces of cannon, with an innumerable quantity of rockets.
"Hyder's numerous cavalry, fupported by his regular infantry and European troops, driven on by threats, encouraged by promifes, and led on by his moft diftinguilhed officers, bore on our little army in different quarters without making the leaf impreftion. Our men, both Europeans and Sepoys, repeatedly prefented and recovered their firc-arms as if they had been manœuvring on a parade. The enemy were repulfed in every attack; numbers of their beft cavalry haviour o were killed, and many more were wounded; even the Engtheir infantry were forced to give way: and Hyder lifh. would have ordered a retreat, had it not been for the advice of General Lally, who informed him that it was now too late, as Gencral Munro was molt probably

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bably advancing on their rear from Conjeveram; for which reafon nothing remained but to break the detacliment by their artillery and cavalry.
"Tippoo Saib had by this time collected his party together, and renewed the cannonade ; and at the fame tinse that the Englifh were under the necelfity of fuftaining an attack both from the father and fon, two of their tumbrils were blown up by Hyder's guns, and a large opening made in both lines. They had now no other ammunition than grape; their guns difcon:inued firing; and in this dreadful fituation, under a terrible fire not only of guns but rockets, loling great numbers of officers and men, they remained from half Talt feven till nine o'clock.
" On this Hyder Aly, perceiving that the guns were quite filenced, came with his whole army round their right flank. The eavalry charged them in diftinet columns, and in the intervals between thefe the infantry poured in volleys of mulfuetry with dreadful effect. Mhiar Saib, with the Mogul and Sanoor cavalry, made the firft impreffion. Thefe were followed by the elephants and the Myforean cavalry, which completed the overthrow of the detachment. Colonel Baillie, though grievoufly wounded, rallied the. Europeans, and once more formed them into a fquare; and with this handful of men he gained an eminence, where, without ammunition, and moof of the people wounded, he refifted and repulfed 13 feparate attacks; but frefh bodies of cavalry contimually pouring in, they were broken without giving way. Many of our men, defperately wounded, raifing themfelves from the ground received the enemy on their bayonets.
"Captain Lucas's battalion of Sepoys, at the time when our men moved up to a rifing ground, was ftationed to the right of the European grenadiers; but
that corps, feeing the Europeans in motion, and mif. underflanding perhaps this evolution for a retreat, broke in the utmolt confufion. The Europeans, bravely fuftaining their reputation for intrepid valour, remained in this extrenvity of diflrefs fteady and undaunted, though furrounded by the French troops, and by Hyder's cavalry to the number of 40,000 . They even exprefied a defire, though their number did not exceed 400 , of being led on to the attack. A party of Topaffes, who lay at the diffance of about 30 yards in our front, kept up an inceflant fire of fmall arms with great effect. Many attempts were made by the enemy's cavalry to break this fmall body of men; but by the fleady conduct of both our officers and men they were repulfed.
"Colonel Baillie, finding that there was now no profpect of being reliesed by General Munro, held up a flag of truce to one of the chiefs of Hyder's army. But this was treated with contempt, and the furdar endeavoured at the fame time to cut off the colonel. 'Mie reafon the enemy affigned for this was, that the Sepoys had fired after tize fignal was hoilled. A few minutes after this, our men received orders to Throw lay down their arms, with intimation that quarterdown their would be given. 'This order was fcarcely complied arms, but with, when the enemy rufhed in upon them in the are crueliy moft favage and brutal manner, fparing neither age nor infancy nor any condition of life; and, but for the humane interpofition of the French commanders Lally and Pimoran, who implored and infilted with the conqueror to frow mercy, the gallant remains of our little army muft have fallen a facrifice to that favage thirf of blood with which the tyrant difgraced his victory." (A)

In this unfortunate action near 700 Europeans were killed
(A) In a narrative of the fufferings of the Englifh who furvived this fatal day, faid to be publifhed by an officer in Colonel Baillie's detachment, we find it related, that "Hyder Aly, feated in a chair in his tent, enjoyed the fight of the heads of the Aain, as well as of his prifoners. Colonel Baillie, whowas himielf very much wounded, was brought to his camp on a cannon, and with fereral other gentlemen in the fame fituation laid at. the tyrant's feet on the ground and in the open air. In this fituation they faw many of the beads of their countrymen prefented to the conqueror, fome of them even by Englilh officers, who were forced to perform that horsid tank in a listle time, however, Hyder ordered no more heads to be brought to him while the Engiifi gentlemen were prefent. A tent was fited up for Colonel Baillie and his officers, but without ltraw or any thing elfe to lie upon, though many of them were dangeroufly wounded; and as the tent could only contain so perfons, the relt were obliged :o lie in the open air. When the prifoners were removed from place to place, they were wantonly infulted, and even beaten by thofe who lad the charge of them. If the latter halted to refrefh themfelses under a tree, they would be at the trouble of carrying their prifoners to the fide next to the fun, left they fhould enjoy the benefit of the fhade. Sometimes they were tormented with thirft, at others the people allowed them to drink water out of the palms of their hands, it being reckoned a profanation to allow an European to drink out of a veffel belonging to an Indian," \&c.

In this narrative are likewife mentioned fome examples of a recovery from wounds, which, if we can depend on their authenticity, muft undoubtedly fhow a reftorative poirer in the human body altogether unknown in this climate.
" Lieutenant Thomas Bowfer received a mulket ball in his leg,-and after that eight defperate wounds with a feymitar. He lay for feven huurs on the fpot, deprived of all fenfation; but, towards evening, awakened from his trance, fripped of all his clothes, except a pair of under drawers and part of his thirt, with an intenfe thirlt, calling out, and imploring a little water from the enemy. Some were moved with compafion, while others anfwered his intreaties only with infults and threats of immediate death. Some water, however, was brought from a pool in the field of battle, about 50 or 60 yards from the place where he lay. It was deeply tinged with hlood; neverthelefs, hir Bowfer being furnilied by one of Hyder's foldiers with an earthen chatty, or pot containing about a pint, and directed to the place, crawled thither as well as he could. Though flruck with horror at the fight of the dead and wounded with which it was Elled, he quenched his thirn with the liquid; and

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fauia. kiticd on the fpot; the lofs on Hyder Aly's part was fo great that he induftrioufly concealed it, being enraged that the conqueft of fuch an inconfiderable body ficuld coft him fo many of his bravent troops. He feemed ever after to confider the Englifh with an extreme degree of terror; infomuch that, notwithftanding lis pretended exultation on account of the prefent sictory, he no fooner heard a report of Sir Hector Munro's march to attack him, that he left his camp in the utmolt confufion, abandoning great part of his tents and baggage, as well as the valt numbers that had been wounded in the late action.

On the news of Colonel Baillie's difafter, the fupreme council of Bergal requefted Sir Eyre Coote to take upon him the management of the war; for the carrying on of whicl a large fupply of men and money was inftantly decreed. This was readily undertaken by the illuftrious officer jult mentioned, notwithftanding his very precarious תate of health at that time; and from the moment he took upon him the management of affairs, the fortune of the war was changed.

The fpirit of difienfion, which for a long time had infected the prefidency of Madras, was indeed the true caufe of all the misfortunes that had happened. This was found by Sir Eyre Coote to be even greater than he had heard by report : the refpect and confidence of the natives was wholly loft ; the complaints of the officers and foldiers were loud and acrimonious; an inaetivity prevailed in all the councils and operations, while the enemy carried every thing before them. Sir Hector Munro had been greatly haraffed on his march to Madras, whither he had retreated after Colonel Baillie's difa!ler; the forces of Hyder Aly had invefted all the places in that neighbourhood in fuch a manner as in a great meafure to cut. off all fupplies; and Arcot, the capital city of the molt faithful ally the Britift ever load, was taken by ftorm, together with an adjoining fort, by which means an immenfe quantity of ammunition and military fores fell into the hands of the enemy.

No fooner had Sir Eyre Conte taken upon him the command of the Britifh forces, than his antagonift rhought proper to change his plan of operations entirely. He now detached large parties of his numerous forces to lay fiege to the principal fortrefles belonging to the company; while, with the bravelt and beft difciplined part, he kept the field againft the Britilh commander in perfon. On the very firf appear. ance of the Britifh army, however, his refolution fail-
ed, and he abandoned the fiege of every place the had invefted, retiring to a confiderable dittance on the other fide of the river Palaar, nithout even difputing the pallage of it, as it was expected he would have done.

A refpite being thes obtained from the incurfions of Pondichere this formidable enermy, the next operation was to fe- ry revoits, cure Pondicherry, whofe inhabitants had revolted. but is They werc, however, eafily difarmed, their magazines quickly ${ }_{\text {red }}$, feized, and all the boats in their poffeffion deftroyed; in confequence of which precaution, a French fquadron that foon after appeared off Pondicherry was obliged to depart without being furnimed with any necelfaries. Lut in the mean time Hyder Aly having drawn large reinforcements from all parts of his dominions, refolved to try his fortune in a pitched battle. His army amounted to $200,0=0$ men, 40,000 of whom were cavalry, and 15,000 well difciplined Sepoys. Still, however, he durk not openly attack the Bitifh army in the field, but took a flrong poft from whence he might harafs them on their march. Sir Eyre Coote, however, was not on his part backward to make the attack ; and on the other hand Hyder Aly prepared to engage him with all poffible advantage. The battle was fought on the ift of July 1781 ; and notwithftanding the valt fuperiority of Hyder Aly's army, he was routcd with great flaughter. The Indians, however, made a much more obftinate refillance than ufual; Defeats the engagement lafled from nine in the morning till four is the afternoon, and the deficiency of the Englifh in cavalry prevented them from purfuing the advantage they had gained.

Notuithftanding the lofs of this battle, Hyder Aly was foon encouraged to venture another. This was fought on the 27 th of Auguft the fame year, on the very fpot where Colonel Baillie had been defeated. It was more obftinately contefted than even the former, being continued with great fury from eight in the morning to near dutk. A number of brave officers and foldiers fell on the part of the Britifh, owing chief* ly to the terrible fire of the enemy's artillery and the advantageous pofition of their troops. At laft, however, the Indian army was totally defeated, and driven from every poft it had occupied; though from the obftinate refiftance made at this time, Hyder began to entertain hopes that his forces might, by a fucceffion of fuch battles, be at laft enabled to cope with the Englifh. He therefore ventured a third battle in Hyder dee fome weeks after, but was now defeated with greater feated a
having filled his chatty, endeavoured to proceed towards Conjeveram. He had not, however, moved from his place above 300 or 400 yards, when, being quite overcome, he was oblized to lie all night in the open air, during which time there fell two heavy fhowers of rain. Next morning he proceeded to Conjeveram ; but after walking about a mile, was met by fome of the enemy's horfemen, by whom he was brought back prifoner, and coliged to walk without any affitance. When delivered up to the enemy's Sepoys, he was fo fiff with his wounds, that he could not ftoop or even bend his body in the fmalleft degree.
"The quarter-mafter ferjcant of artillery received fo deep a cut acrofs the back part of his neck, that he was obliged to fupyort his head with his hands in order to keep it from falling to a fide all the journey. The leaft flake or unevennefs of the ground made him cry out with pain. He once and again ceafed from all atdempts to proceed; but being encouraged and conjured by his companions to renew his efforts, he did fo, reached the camp, and at laft, as well as Thr Bowfer, recovered." - It is alfo remarkable, that, according to our authnr, out of 32 wounded perfons only fixdied; though one would be ayit to thirk that the excefively feverc ufage they met with would have killed crery one.

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India. iols than befure. UnJifcouraged by this bad fuccefs, hosever, he laid fiege to Vellore; and expecting that the relief of it would be attempted, feized a frong pafs through which be knew the Britilh army mult direit their march. The British commander accord. ingly adranced, and found the eneny in poretion of fome very flrong grounds on both lides of a marth throught which he was obliged to pals. Here he was attacked en all fides, but pincipally on the rear, the enemy directing their force principally a mainf the barygage and consoy of provilions defigated for the gasrifun. Their utmolt efforts, however, were unfucceffful. and Sir Eyre Coote forced his way to Vcilore in fpite of all oppolition. Hyder Aly did not fail to wait his return through the lame pafs; and having everted his utmott fall in potting his troaps, attacked him with the utnofl rigour: But though the Englith were afliulted in front and in both thanks at once, and a heavy canmonade kerit up during the whole time of the engagement, the Indians were at latt defeated with great llaughter.

By thefe fucceffes the prefidency of Madras were now allowed fo much refpite, that an enterprile was planned againlt the Dutch fettlement of Negapatam, fituated to the fouth of Madras, and in the neighbourhood of "I'anjour. A very inconfiderable force, howeier, could yet be fpared for this purpofe, as Hyder Aly, though fo often defeated, was ftill extremely furmidable. Sir Hector MLanro had the management of the expedition: and fo furious was the attack of the Britioh failors, that the troops left to guard the avenues to the place were deleated at the very firl onfet. A regular fiege enfued; which, however, was of very llort duration, a breach being foon made and the garrilon furrendering prifoners of war.

The lofs of Negapatam was quickly followed by that of Trincomale in Ceylon. Admiral Hughes, who had conveyed Sir Hector Munro with the land forces to thai place, and affifed him with his failors, immediately after its furrender let fail for Trincomale, where he arrived about the middle of January 1782. The fort of that name was quickly reduced; but the main Atrength of the fettlement confilted of a fort named Qhenburgh, the principal place on the illand, and by the capture of which the whole fettlement would be reduced. This fort ftands on a hill which command; the harbour, but is itfelf overlooked by another hill at the ditance of no more than 200 yards. Though the gaining of this poft was undoubtedly to be attended with the lofs of the fort, it does not appear that the governor even attempted to defend it. A Britih detachment of failors and marines therefore took polfersion of it , when the admiral fent a fummons of furrender, reprefenting the inutility of making any farther defence after the lufs of fuch a puft; and being extremely deïrous of avoiding an effufion of blood, repeated hiv arguments at feveral dificrent times. 'I'he govemor. however, proving obthinate, the place was raken by loorm, with the lofs of abou: 60 on the part of the Britith, and very little on that of the Dutch, the victors giving quarter the mument it was aked. Four hundred Eutopears were taken prifuners; a large quantity of ammunition and military ltores, with a numerous astillery, were found in the fiace; and wo Indiamen Vol. XI. Part I.
richly laden, with a number of finall trading veffeis, were taken in the harbot:r.

A more formidable enemy, however, now made his appearance on the couit of Coromandel. 'This was Suffein the French admial; who fetiong out from r wren ar bis native country with is hips of the line and feveralpowe iut fout frigates, hail fallen in with the Hannibal of $50^{\text {llect tron }}$ guns, and taken her when feparated from her confurte, Eurpte. This ihip, along with three others, a 74, a 64 , and at jo, had been tent out to the alfilance of Sir Edward; and the three laft had the good fortune to join hinn befcre the arrival of $\mathbf{M I}$. de Euffrein. 'The latter, for. pofing that he had not yet received this reinforicnaci.t, bore down upon the Englifh fquadron at Aladras, io which place they had dailed immediately after the ca?ture of Trincomale. Perceiving his mitake, honever, he indantly bore anay. 'The Englith admiral pur fued, touk fix veffels, five of them Engliilh prizes, and the lixth a valuable tranfport laden with gumpowder and other military fores, betises having on bourd a number of land-othicers and about 300 regular troup:。 This brought on an engagement, in which M. Sutfrein, perceiving the rear divilion of the Britihn flect unable to keep up with the rell, directed his force $1_{39}$ principally againtt it. The thips of Almiral Hugłes E gasehimfelt and Commodore King fultamed the moll rio-me tbelent efforts of the French, having mollly two, and weenh.ma fometimes three, vefiels to contend with. Thus the Edward commodore's thip was reduced almolt to a wreck; butilughes. about lix in the evening, the wind becoming more favourable to the Englith, the \{quadron of the enemy were obliged to draw off. The lols of men on the part of the Britilh amounted to little more than 132 killed and wounded, but that of the French exceeded 253.

After the battle Sir Edward returned to Madras; but meeting with no intelligence of Suffrein at that place, be made the belt of his way for Trincomale, being apprelienfive of an attack upon that place, or of the intercepting of a convoy of tores and reinforcements at that time expected from England. Suffrin had indeed got intelligence of this convoy, and was at that time on his way to intercept it. This brought the hothile fleets again in fight of cach other; and as the Britih admiral had been reinforced by two lhijs of the line, he was now better able to encounter his ad- $x_{4}$ verfary. A defperate battle enfued, which continued ifecond till towards night, when the hips on both fides svere fo ${ }^{\text {battie. }}$ much thatiered, that neither could renew the engageneent next day.

Though thefe engagements produced nothing decilive, they were neserthelefs of the utmolt prejudice to the aftairs of Hyder Aly, who was thus prevened from receiving the fuccours he had been promiled from France; and he was itill farther mortified by the defeat of his forces before 'lellicherry, which place he Hyder had blocked rip fince the commencement of hontilities. is $y$ 's forces This laft misfortune was the more fentibly felt, as andericuted at open pallace was no:s left for the Englith iato thofe countries bett affected to Hyder. His bad luecefs, ${ }^{1}+4 z$ here, however, was in fume meafure compenfated by raith the entire defert of a detachment of about 2200 Eng. - ware's delifh infantry and 302 cavalry un ler Colmel Brailh-t obment waite, a brave and e:perienced ollicer. This deach-cut ont by F. e molit. ,at.

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India. ment, cenffing of chofen troops from Sir Eyre Coote's army, lay encamped on the banks of the Coleroon, which forms the northern bourdary of Tanjour. Tippoo Saib having procured exact intelligence of the fituation of this party, formed a defign of attacking it while no danger was fufpected on account of the diflance of Hyder Aly's army. He fet out on his dengn with an army of 15,000 horfe and 5000 foot, accompanied by a body of French regulars; and hawing crofled the Coleroon, fuddenly furround ded the Britith focces on all fides. The colonel, perceiving his danger, formed his men into a fquare, diftributing the artillery to the feveral fronts, and keeping his cavalry in the centre. In this fituation he refilled for three days the utmolt efforts of his numerous enemies, always compelling them to retreat with great lofs. At lait General Lally, rightly conjecturing that the ftrength of the Englifh mutt be exhaulted and their numbers thinned by fuch defperate fervice, propofed that the French infantry, which was frefh and entire, thould attack one of the fronts of the fquare, while the forces of Tippoo brould do the fame with the other three. This laft attack proved fuecefsful; the Britilh forces were broken with great flaughter, which however was Alopped by the hurnanity of the French commander; who even obtained from Tippoo Saib the care of the prifoners, and treated them with a tendernefs and humanity they certainly would not otherwife have experienced. A number of Britim officers, however, perifhed in the engagement, and only one semained unwounded.

In the mean time, the fuccours from France, fo long expected by Hyder, made their appearance. As foon as a junction was formed, they proceeded, under the command of M. Duchemin, to inveft Cuddalore; which not being in any fituation to ftand a fiege, was furrendered on capitulation. In like manner fome other places of fmaller conferguence were reduced, until at laft being joined by Hyder's numerous forces, they determined to lay fiege to Vandervath, a place of great importance, and the lofs of which would have heen extrenely detrimental to the Englilh. This guickly brought Sir Eyre Coote with his arny to its zelief; but Hyder Aly, notwithfanding his being reinforced by the French, durlt not yet venture a battle in the open field. On this the Britith commander procoeded to attack Arnce, the principal depotitory of Hy der's warlike fores and necelfaries. Thus the latter was obliged to quit his advantageous ground; but he did fo with fuch fecrecy and fpeed, that he came upon the Britith arny unawares while preparing for its laft march to Arnee, now only five miles diftant. Perceiving that the march of the Britith troops was through low grounds, encompaffed on moft parts with high hills, he planted his cannon upon the latter; from uhich he kept a continual and heavy fire on the troops below, while his numerous cavalry attacked them on every fide. Notwithltanding all diladvantages, the 3 3ritifin commander at laft clofed in with the enemy; and after an obftinate difpute completely routed them. Neither this, however, nor any other engagement with IIyder Aly, cuer proved decifive; for as the want of casalry prevented the Britilh general from purfuing bis advantage, fo that of his antagonilt was fo numexous, that by it he always covercd his retreats in fuch
an effectual manner as to lofe but few men, and in a flucrt time to be in a condition to act again on the offenGe. "Yinis wat remarkably the cafe at prefent; for notwithftandirg this defear, which happened on the 2d of June. $17^{82}$, he cut off an advanced body of tho britilh army five days after; and harafled the whole in fuch a manner, that Sir Eyre Coote, notwithlland. ing his fuccels, was obliged to move nearer Madras; foon afier which, he was obliged, on account of his bad flate of health, to relinquifi the command of the army to Gencral Stuart.

Hyder Aly now perceiving that he was likely to be attended with no luccels by land, began to reft his hopes on the fuccets of the French by fea. He therefore earnefly iequefted M. Suffren, who pollefled at that time a decifive fuperiority in the number of fhips. to lofe no time in attacking the Britith fquadron before it could be joined by a reinforcement which was then on its way, and was reported to be very formidable. As the French commander was by no means A ${ }^{8} \$ 5$ deficient in courage, a third engagement took place fight, great on the $5^{\text {th }}$ of July 1783. At this time the Eritinh ly rohedi had the advantage of the uind, the battle was much of the more clofe, and the victory more plainly on their fide. Frenca. It is faid indeed, that had not the wind fortunately hifted in fuch a manner as to enable the French to difengage their Mips, a total and ruinous defeat would have cnfued. After the engagement, the Jirench admiral proceeded to Cuddalore, having reccived intelligence that a large body of French troops in tranfports had arrived off the inland of Ceylon, in company with three fhips of the line. As this feensed to afford hopes of retaliation, he ufed fuch diligence in refitting his mips, that the Heet was able to pui to fea in the beginning of Auguf. His intention was to make an attempt on Trincomale: and fo well were his deligns conducted, that Sir Edward received no intelligence of the danger, till a Britifh frigate chafing a French one, which took thelter with the fquadron at Trincomale, difcovered it by this accident, and haftened back with the news to Madras. It was now, however, too late ; the place uas not in a condition to relift a fiege; and the French batteries having filenced thofe of the fort in two days, a capitulation took place on the laft day of Augult.

Sir Edward Hughes having been detained by contrary winds, did not arrive at 'Irincomale before the 2d of September, when he hat the mortification to fee the forts in the hands of the French, and that Suffrein was in the harbour with 15 fail of the line while he had only 12 . He did not heditate at venturing an a f 47 engagement with this inferiority, nor did M. Sufrein batte bedecline the combat. The event of the battle was treenthe no other than hattering the fleets and billing and Frenchan wounding a number of men on both fides. In this, ficets. however, as well as in the other engagements, the fuperiority of the Englifh was very manifeft; and in entering the habbour of Trincomale the French loft a 74 gun hiip.

The lofs of 'Trincomale was feverely felt by the Engliff; for while the French lay fafely in the harbour refiting their fquadron, the Englifh were obliged for Englim that purpole to fail to Madras. Here the Heet was fieet fat affailed by one of the moft dreadful tempefts ever - red by a known on that coaft. Irading veffels to the numberdieadful

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India: of ncar 100 were wrecked, as well a thofe for Madras laden with rice, of which there was an extreme fcarcity at that place. Thus the fearcity was augmented to a frmine, which carried off vaft numbers of the inhabitant: before fupplics could arrive from Bengal. The continuance of the bad weather obliged Sir Edward with his whole fquadron to fail to Bombay; and there he did not arrive till towards the end of the ycar, when his fquadron was fo much fhattered, that, in order to : epair it with proper c:pedition, he was obliged to diliribute it between the dock-yards of Bombay and the Portuguefe fettlement at Goa.

In the mean time Sir Richard Bickerton arrived at Bombay from England with five men of war, having on board 5000 troops, after a very favourable pallage; heving neither feen nor heard of the bad weather which had defolated the coafts of India. It was likewife the intention of France to fignalize the campaign of this year by an immenfe force both by lea and land in $\mathrm{I}_{11}$ dia. Exciulive of the forces already on the coall of Coromandel, they were to be joined by 5000 more, all regulase, from their innnds on the African coalt. Suffrein was to be reinforced by feveral thips of the line, when it was hoped that a deciled fuperiority at fea vould be obtained over the Englih; while their fuperior numbers and artillery on fhore would sender them invincible by any force that could be brought againft shem. To oppole thele defigns, it was deemed recelfary by the piefidency of Bombay to make a power\{ul diverfion on the conif of MTalabat. Here was fituaacd the kingdom of Myfure, the fovercign:y of which had been ulurped by Hyder Aly under the title of Dayve, as that of the Mahrattas was by a perfon fryled Pafifa. This kingdom is nearly in the fame parallel with Arcot. 'Io the northward is the kingdom of Canara, which is faid to have been the favourite poffeffion of Hyder Aly; the name of its capital is Bidnore, which alfo gives name to an extenfive territory, and was by Hyder changed to that of Hydernagur, The expedition had been fet on foot as early as the end of the year 1781 ; a ftrong body of forces under the command of Colonel Humberflone had taken the two cities of Calicut and Panyan, befides others of leffer note, and penetrated into the inland country, which is there difficult and dangerous. Having here made himfels mafter of a place called Mongarry Cota, of which the fituation commanded the entrance into the inner parts of the country, he proceeded to attack Pa latacherry, a confiderable town at fome miles diftance; but being fuddenly environed with a numerous and hofile army, inftead of making himfelf mafter of the place, it was not without the utmof cifficulty that he made his efcape "after lofing all his provifions and bag. gage. A great army, conifting of 20,000 foot and 10,000 horle, under Tippoo Saib, alfo advanced againft him with fuch celerity, that the colonel had only time to retreat to Panyan, where he was fuperfeded in the command by Colonel Macleod; and foon after the place was invelted by the forces of the enemy, among whom was General Lally with a confiderable body of Fisench. Two Britifh frigates, however, having come to the affifance of the place, rendered all the attempts of the enemy to reduce it abortive. At laft Tippoo Saib, impatient of delay, made a vigorous effort againft the Britifh lines; but though boith the Indian and

Fronch comrianders behaved with great bravery, tile I: dia. attack not only prorcd unfucceffful, but thoy were repulfed with fuch lols as determined Tippoo to abandon the fiege of the place, and rctire beyond the river of Ранап.

As foon as the prefidency of Bombay werc acquaint-Unfortued with the fucceis of Colonel Humberifone, General nat: expeMiatthews was dipatched to his alfitance with a power-neral Met ful reinforcment. 'This expedition, which began the thews. campaign of 1793 in the kingdom of Canara, has been related with circumtances fo difgraceful, and fo exceedingly contrary to the belaviour for which the Britiih troops are remarkable, that we are totally at a lofs to accoum for them. On the one hand, it fecme fur prifing how the mational character could be forceited by a paiticular body, and not by any other part of the army; and on the other, it feems equally furprifing why fuch calumnies (if we fuppofe them to be fo) fhotld have arien againf this particular borly and no other part of the army. Such accounts of it, however, iss were publimed as raifed the indigmation of the military charged gentlemen, who thought proper to publith a virdica. with greas tion of themelves. In the Annual Regifters, from thisespedie whence, next to the gazettes and newfpapers, the ge-tion. nerality receive what they look upon to be authentic inte!ligence, the charafie: of this army is treated with the ligheft afperity. "In the fory of the conqueft and recovery of Canara ( Gays the New Annual Regifter), the Spaniards may be faid to be brought a fecond time upon the fcene, but not to fit down in ful len and infolent profperity after all their crimes. The Spaniards of Britain were oveztaken in the midft of their career; and he who is more of a man than a:1 Englifhman, will rejoice in the irregular and unmeafured, but at the fame time the juit and merited, ven. geance that was indicted upon them by the prince whofe dominions they were ravaging :" "In fupport of this dreadful exclamation the following account is given of the expedition. It began with the putting in execution a delign formed by General Matthews of carrying the war into the henrt of Hyder Aly's dominions. For this purpofe the Englifh invefted the city of Onore, fituated about $3 \geq 0$ miles to the fouth of Bombay, and onc of the principal places in the country of Canara. "It was taken by affault (hays Dr Andrews) with great ilaughter, and plundered with circumftances of avarice and rapine that difyraced the victors; among whom, at the fame time, great difcontents arofe concerning the divifion of the fpoil." "No quarter (fays the Annual Regiter) was given by the rictorious Englifh; every man they met was put to the fword. Upon this occafion we heg leave to tranfcribe three lines from the private letter of one of the officers concerned in the expedition. 'The carnage (fays he) was great: we trampled thick on the bodies that were firewed in the way. It was rather fhrcking to humanity; but fuch are only fecondary cunflerations, and to a foldier, whofe bofom glows with heroic glory, they are thought oniy accidents of courfe; his zeal makes him afpire after farthcr victory.' This part of the peninfula had bitherto been untouched by the barbarous and unfparing hands of Europeans, and of confequence was full of riches and Splendor. In the fortrefs of Onorc were found fums of money to an unknown amount, befides jewels and
I...id. ©inmulcis. A conilderabie part of this afpears to bave Leen fecured 25 priva:e plunder by General Mathews. 'ine cumplants of the military were loud; they thought, and raturally, that the acquifition of riches was the fair and reafonable confequence of the perpetation of bloodilied. But their commander turned a deaf car to their reprefentations; and haftened, by adding new laurels to his fame, to hide the flander that might utherwife ref upon him."

From Onore the army proceeded to the neareft fortrifes on the fea coaf, MIore and Cundapour. Hure they were joind by a reinforcemenr from lombay uncer the commatid of Culone!s Jilacleod and Humber. i?one, with pofitive orders to procced for Bidnore or Itydernagur the capital of Canara. On this General NI:thews marched for the mountains called the Ghouts, where there is a pafs three miles in length, though only figlt feet wide, and which was then frongly fortified and defended by a vaft number of the natives. "The Englifh (fay our authors), however, had already obtained a confiderable reputation by their executions; and the ufe of the bayonet, the moft fatal inftrument of war, and which was employed by them on all occafions, created fuch an extreme terror in the enemy, as to eaable them to fumount this cthersife impregnable defle."

The gaining of this fals laid cpen the way to Bidnore tie capital, to which a fummons was now fent. An anfwer was returned, that the place was ready to fubrit, provided the inhabitants were not molched, and the governor was permitted to fecure his properiy. The wealth of this city was undoubtedly great, but the eflimates of its amount are very different. By the accounts of Bombay it was fated only at 175,0001 . while the officers concerned in the expedition fay that it was not lefs than $1,200,0001$. or exen $1,020,0001$.; and even this was osly public property; that feized upon by the foldiers, and which belonged to prisate pcrions, was undoubtedly very confiderable alfo.

Ihis t:eafure was at firft hown by the general to his oficera, and declared to belong to the army; but lic atterwards told them that it was all the property of ti.c Mohammecian governor, and had been fecured to lim by the terms of the furrender. It was therefure fent to Cundapour under the convoy of Licutenant Nitthews, brotlier to the general, to be thence traufmitted to Brmbay ; but whether any part of it ever reached that fettlenent or not was never known. The difontents of the army were now carred to the utmofl teight; and the conteft became fo ferious, that Culoncls Maclend, Humt entone, and Shaw, quitted the draice altogether, and returned to Bumbay. The ofliccrs clarged their general wihh the moll inatiable End hameful avarice; while he, in return, accufed his whole arny of duing cuery thing difrefpectful and in$j$ jrious to him; of paying no regard to order and difcipline, and of becoming loofe and unfeeling as the mon licentinus freebooters.

From bidnore detachments were felt to reduce feveral furtreijes, the priucipal of which was Ananpour or Anantpore. Here crders werc ilfued for a ftorm a: d no quartr. Every man in the place was put to $i^{\prime}$ cath, except one horieman who made his efcape after being wounded in three places. "The women, unwhlitriog to be fepazated from their relations, os expo.
fed to the brutal licentioufnefs of the fudiery, ilarex themfelves in multitudes into the moats with which the fort was furrounded. Four hundred beautiful women, pierced with the bayonet, and expiring in one another's arms, were in this fituation treated by the Britith with every kind of outrage."

This exploit was fucceeded by the reduction of Carwa and Nlangalore, which completed the reduction of Canara, when General Matthews put his arny in cantonments for the rainy feafon.

This rapid fucce?s was owing to the death of Hyder Aly, which happened in the end of the rear 1782. His fon Tippoo Saib, however, having taken poffeffion of the govermment, and fettled his affairs as well as time would allow, inftantly refumed his military operations. On the 7 th of April 1783 he made his appearance before Biducre, fo that General Matthews had farce time to collect a furce of 2000 men, and to write to Bombay for a reinforcment. But, however neceflary the latter muft have been in his circumflances, the prefidency were fo much prejudiced againt him by the nafarourable reports, of his officers, that they fufpended him from his commilion, apponting Colonel Macleod to fucceed to the command of the army.

Tippoo Saib now advanced with a vat army, fuppofed not to be fewer than 150,800 men, covering the hills on each fide of the metropolis as far as the cye could reach. The army o! General Mathews, altogether unable to cope with fuch a force, was quickly driven from the town, and forced to take rafuge in the citadel. Tippoo having cut off their retreat ly gaiaing poffefion of the Ghauts, laid clofe liege to the fortress; which in leis than a fortnight was obliged to capitulate. The terms propoied were, that all public property fhould remain in the fort; that the Englifh fhould engage not to act againt 'lippoo for a titpulated time; that they mould march cut with the honours of war; that they fould pile their arms, and have full liberty to proceed unmolefted with their private profery to the feacoalt, from thence to embark: for Bombay ; and in this capitulation the garritoms ct Ananpour and other inland fortrefles were alio included.

All theefe terms were broken by Tippoo, who faid that they had forfeited their title to liberty by a breach of the articles of capitulation, in embezzling and lecreting the public money, which was all, in good faith, to be dclivered up. That this was really the cafe feems to be univerfally acknowledged. In the Anmual Regifter we are told, that " to prevent too mach money being found in the poliefion of one man, the general ordered his cfficers to draw on the paymafter-gereral for whatever fums they wanted. When the fort was furrendercd to the fultan, there was not a fingle rupee fomd in it." By this circumfance the fate of the garrifon was decided. General Matthews was fent for next morning to a conference. He was not, however, admitted to his prefence, but immediately thrown into chains. Molt of the other principal officers were, on tarious pretences, feparated from the army. The general and his companions were conduted to Seringa1atam the capital of Myfore; and after having expericnocd a variety of feverities, were at lall put to death by poifon. In this manner the gencral and 20 officers
perilhed.

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perinhel. "The poilon adminiflered was the ani!k of the cocoa-tree, whi his faid to be very deadly.

The above account was repeatedly complained of as patial; and at lat openly contradicted in a pamphlet erctitled "A Vindication of the Conduct of the Eng. lills Furces" enirloyed in that expedition, and publimed by order of the Ea! India Conspany. In this pamph. let the circumftance molt found fault with was that regarding the women at Anantpore, which was pofitively contradicted. On this account, therefore, the publihers of the above-mentioned work retract that part of their narrative, as being founded in mifreprefeatation. Notwithfanding this vindication, however, they ftill draw the following conclufions. "It is already fufficiently evident, how little has been effected by this vindication of the Bombay olficers. "Whe great oathencs of the expedition remain una'tered. It is fill true that a remarkable degree of feverity was emploved ir the field; that; in the capture of the fortrefics of Canara, the principle of a form and no quarter was re:y frequently applied; and that the acquifition of money was too much the governing o'ject in every frage of the undertaking. The vindication of the officers las therefore done them litile fervice; and it hapnens here, as it generaliy does in the cafe of an imrerfect reply, that the majority of the facts are rather $i^{2}$ renetlened and demoaltrated by the attempt to refu:e them. With refpect to the conclution of the flory, the treafures of Hydernagur, and the charge brought againes them by Tippoo, that they had broken tise terms of the capitulation, and that when the fort was furrendered not a rupee was to be found in it; thefe circumftances are pafid over by the ofticers in the profoundelt filence. It was this that roufed the fultan to rengeance; and it is to this that he appeals for his juftincation in dilregarding a capitulation which had been firf difiotved by the varquimed Englin."

The vindication abore alluded to was figned by one major and 52 fubaltern uffcers. It feems not, however, to liave given entire fatisfaction to the nilitary gentlemen thenfelves, as other vindications have appeared, faid to be writen by officers; but thefe being anomymons, can be fuppofed to add very little weight to that alrealy mentioned, where fuch a refpectable body have figned their nanes. We fhall therefore drop a fubject fo difagreeable, and the inveltigation of which at the fame time is entirely foreign to the plan of this work.

I: now remains to give fome account of the war with the Nahrattas, begun, as was fomerly linted, on account of the protection afforded to the ailatim Roga-naut-row. 'This man had formerly obliged the Mogul to take thelter in the Einglin factory at Bengal; but being unable to keep up his credit among his countrymen, was expelled as already related. On his arrival at Bombay, an alliance was formed betwist him and the Engli h government ; by which the latter engaged to replace him in the Mahratta regency in confideratien of fome valuable ceffions of territory. The fupreme council of Bengal, however, difowned this rea$i y$, and concluded one with the Mahrattas in the month of Narch 1776 ; by which it was agreed that they thould proside for Ragot,ah's fubfittence according to his rark, on coadition of his refiding in their country.

This being nut at all agreeable to Ragobals, he fid Ini!.. once more to Bombey, where a new confederacy was entered into for lis reforation. '1he council of Eengl apprused of thi, on account ot the approchang 1 ufture with France; and in confequence of this, a detachment wa, in Lecbruary $17-8$, ordered 10 march acrofs the contixent of India. By fome mifmanagement i: this expedition, the uhole army was obliged to capitulate with the Mahratta general on the gtis of Janury 1779. One of the terms of the capitulation was, that a body of troops which were edvancing o:s the o:her fide fhould be obliged to return to Beagal. But General Goddard, the commander of thefe forces, denying the right of the cuuncil of Bengal to remand him, proceeded on his march, and arrived on the 1 Sth of February. Here he received orders to conclude a new treaty, if it could be obtained on eafier terms than that of the capitulation, by which it had been engaged to cede all our ac fuifitions in the country of the Mahrat:as.

Such extreme difregard to any tipulations that could be made, undoubtedly provoked the Mahrattas, and induced them to join in the confederacy with Hy der Aly already incationed. The war, however, was fuccelftuily begiun by General Goddard in January I 7 So. In three munths he reduced the whole province $\mathrm{c}_{\hat{i}} \mathrm{Gu}-$ zerat. Niadajee Scindia the Mahratta general advanced to oppofe him ; but as he did not choofe to reature a battle, the Englih general formed his camp, an? totally routed him. Other expluits were performed in the courle of this campaign; during which the gover-nor-general (Mr Hafings)-feeing no hopes of an accommodation, entered inio a treaty with the rajah of Gohud, and with his confent Míjor Popham reduced a furtrefs in his dominions named Guallior, garrifoned by the Mahrattas, and hitherto reckoned impregnable.

Thefe fuccefles were followcd by the dreadful incurfoons of Hyder Aly already related, which put a fop. to the conquerts of General Goddard; all the forces he could fpare being required to affit the army under Sir Eyre Coote. The la!t exploit of Geacral Goddard was the reduction of the illand of Salfetie, and of a trong fortrefs named Bafein in is nei, shoursocd. The army of Scindia, curfitting of $30,0=0$ men, was alfo deforated this year by Colonel Carmac ; and ilie Mahatias, difheartened by their lofies, confented to a ferarate peace with the Englith, leaving Hyder Aly to manage the war as he thought proper.

In the mean time, however, the expences incurre.? by the?e wars were fo high, that Mr Hatings, who was obliged to furnith the:m fome how or other, was reduced to the greatelt dificulties. For this purpofe not only all the treafure of Bergal was exhaufted, but it was found neceffary to draw extraordinary contributions from the Britiln allies, which was productive of many difagreeable circumftances. One of the mont remark- Revolt ot able was the revolt of Benares. The rajah of this Benares. country had formerly put himfelf under the protection of the Englith, who on their part agreed to fecure his dominions to him on condition of his prying ans anmal fubfidy to the nabob of Oude. ln 1-ラO the rajah dicd, and was lusceeded by his fon Clacit Sing, who held the fovereignty at the time we fpeak of. On tise death of the nabob irı נ775, a new treaty was maje with his
fuccefior:

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Erdis. fucceffor, by which the fovereignty of Benares was transierred to the Eaft India Company, an acquifition equivalent to $2,0,0001$. per amum; at the fame time that the fublidy paid by Sujah Dowla, and which, by Lord Clive, had been fixed at 36,000l. and afterwards raifed to 252,0001 , was now augmented to 312,0001 . fer annum.

On receiving intelligence in July 1778 , that war had actually commenced between France and England, Cheit Sing was required to pay 50,0001 . 2s his fhare of the publie burdens. Such a demand was paid with extreme reluctance on the part of a prince who already sontributed $2 ; 0,000$. and probably thought that an abundant equivalent for the protectiun enjoyed. The feme requilition, however, was made the two fucceeding years, but with a promife that the demand chould eeafe when peace was reltored. Inflead of any prefent alleviation, however, a body of troops was alio quartered upon him, and he was likewife obliged to pay for their maintenance, leit he fhould not voluntarily pay the additional 50,0001 . In November 1780, in addition to all thefe demands, he was alfo required to fend into the field fuch a body of horfe as he could fare; but this requiftion, owing to fome mifundertanding, was
much lefs proftable than he had expected ; for the treafury of the fugitive prince was feized and retained by the fuldiery.

As to the naibol of Oude, a new treaty was conclud- New wite with ed with him; the defign of which was evidently to eafe the nathot him of fome of the burdeas to which he was at that time of ()udc. fubjected. Part of the Britith troops were theretore withdrawn from his dominions. As Fizulla Khan, the moll profperous of his dependents, had been called up)on to furnifh a boty of 5000 horfe to join the nabob's army, and had not complied with the requifition, the graarantee of his treaty with the nabob, formerly exccuted, was withdrawn; but it being alterxards ditcovered that his territory was not equivalert to the claims of the governor, the treaty was renewed on payment of a thight fire. As the wiilow of Sujal Dowla was fufpect. ed of favouring the late rajah Cheit Sing, the reigsing prince was allowed to reclaim the treafures of his father in her poffefion, on condition of paying her a certain fipulated allowance anmally. The treafores werc feized as payment of the debts of the prince to the company.

Hoftilities continued in India between the French and Englith till the year 1783 was far advanced, and long after tranquillity had been retlored to other parta of the world, In the begianing of the feafon for action the governor and council of Bengal deternined to fend an ample fupply to the prefidency of Madras, that they might be enabled to put an end to the war, which Tippoo feemed willing to profecute with even more vigou: than his father had done. For this purpole Sir Eyre Conte, who, for his health, had gone to Bengal by fea, fet fail once more for Madras, being intrulted with a large fum of money for the necefliry expences o! the war. In his paflage he was chaced for fortyeight hours by two French men of war. The folicitude arad fatigue he underwent during this time, being almof conftantly upon deck, occationed a relapfe, fo that he died in two days after his arrival at Madras. His death was greatly lamented, as the greateit expectations had been formed of a happy conclufion being put to the war by his extraurdinary military talents, for which be had already acquired fo great a reputation is India.

The invafion of 'Tippoo's dominions having called him off from the Carnatic, General Stuart took the opportunity of attacking him in another quarter. Colo nel Fullarton was defpatched with a large body uf troops to invade the province of Coimbatour. This he executed with great fuccefs; overrunning the courtry, taking feveral fortreffes, and making a very alarming divertion on this fide of 'lippoo's dominions. General Stuart, however, having fill greater defigns in view, was obliged to recal this gentleman in the midat of his fuccels. The fiege of the itrone fortrefs of Cud- cudition dalore was the operation which now engaged his atten- wnfucef tion. It was now become the principal place of arms belonging to the French; was froncly fortified, and fieged by parrifoned by a numerous body of the beft troops in ti:- Eng ops in lioh. France, as well as a confiderable number of 'Tippoo's choicelt forces. The fiege therefore proved fo difficult, that though the Englifi difplayed the utmoft valour and military fkill, they were not able to reduce the place until holilities were interrupted by the news of a general pacification having taken place in Eurace. In

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this thege a remarkable circumbance took place, viz. that of a corps of Sepoy grenadiers encountering and overcoming the French troops oppofed to then with fixed bayonets. For this remarkable infance of valour, they not only received the highen applaufe at the time, but provilion was made for themfelves and families by the prefidencies to which they belonged.

After the reduction of Hydernagur, and the defruction of the army under General Mathews, the Englifn poffefed only three places of confequence i.s the Kingdom of Canara. Thefe were Mangalore, Unore, and Carwa. The fiegc of all the fe places was undertaken at once. Mangalore, the principal port in the country, was defencled by a very numerous garrifon under Major Campbell. Tippoo fat down befure it on the igth of May; and the attack and defence were both conducted with the greatell fpirit and activity. Notwithtanuing the utmoft efforts of the befiegers, however, and that the garrion were reduced to the laft extremity for want of provilions, they held out in 'pite of every difficuity, until the general pacification being concluded, the place was afterwards delivered up. In other parts nothing more happened than an indecifive engagement between M. Suffrein and Admisal Hughes; fo that the Pritin empire in Bengal was for that time fully eflablifhed, and continued unmolefted by foreign enemies, till the ambition of Tippoo Saib again prompted him to invade the territories of the nabob, an ally of Britain. This again brought on a war with that reflefs, but able prince; in this war the Britilh were juined by the Mahrattas, and the conduet of it wasentrutted to Lord Comwallis.

Among the various ufurpers who fuddenly rofe to the sank of fovercign princes on the fall of the Mogul em. pire, Hyder Aly was the mofl fuecefsful. A raater in diffimulation and treachery, he laboured, while in a humble fation, to acquire the curfidence of his fuperiurs, that he might the more completely betray them. 'Ihefe qualities, fo neceffary to a fuccefsful ufurper, were in time accompanied with confiderable military fkill, and great talents for government. Hence the power which he at firt fo treacheroully obtained, was foon augmented by frefh acquilitions; and the territories which he conquered were governed with a fyitematic arrangement and rigorous juttice, which fpecdily augmented their population, and increafed his own refources.

His Son, Tippon Sultan, though far inferior to his father in the art of government, in moderation, and in the general feadinefs of his character, was, however, difinguithed in lndia as an excellent officer and intrepid warrior: qualities which effectually fecured him the confidence $n=$ his troups. The operation of the fyltem eitablified by his father, and the warlike complexion of his own character, continued to fupport the gereral profperity of his dominions, which were enlarged on 211 fides by conquefts from his ncighbours, and were frengthened by a great number of the moft impregnable fortreffes in the neninfula.

Hence the power of the Myforean kings, which in its rife had been often combated, and fometimes defeated by the Mahrattas, at laft acquired a decided afcendency in the fouth of India. The difcipline and fidelity of their troops, till their late aggrefions on the Britif, had conftantly been increafing in reputation;
and fully evinced the excellent regulatiors which had lad.a. bees eltablifhed for the army. The government of both princes was frict ; that of the laft, violent and arbitrary. It was ifill, however, the defpotifm of an able and warlike fovercign, who may rigorouly check, but does not deftroy thofe fubjeets which muft form the means of his future aggrandifement.

From thefe caufes the extenfive territory of the My. fore and its dependencies had not, in the courfe of many years, fuffered materially, either from infurrection or external invafion;-a felicity but rarely experienced in any quarter of India. When they were invaded by the Britift and their allies, under the conduct of Lord Cornwallis, the whole country was found in a high ftate of cultivation, and filled with inhabitants. The regular army confifted of 70,000 men; and the troops employed in the garrifons, in the police, and in the collection of revenue, amounted, by the moft authentic accounts, to twice that number. This valt eftablifhment was fo completely furnifhed with artillery in the numerous forts, and in the field, that upwards of 403 cannon were found in the outworks of the capital alone. The molt frequent bar to the efficiency of native armies, is the want of regular pay: an obitacle the provident fultan bad removed, by gradually amalfing valt treafures, which he fecured in the furts, or it the capital; and by improving his revenue, which amounted annually to kpwards of three millions ferling.

The power and refources of the Myforean dominions, thus formidable in themfelves, cannot be fairly eltimated, unlefs we take into account their advantageous pofition and the character of the forereign. Lying in the heart of the Deccan, and flrengthened by imumerable forts, they command the adjoining frontiers of all their neighbours; while the relkefs and enterpiling fpirit of the prince has long obliged all around him to keep in a llate of conflant military preparation, to them nearly as expenfive as that of actual war. Few years were fuftered to elaple, in which their territories were not either menaced or actually invaded. The open and defencelefs frontier of the Carnatic was frequently the object of thefe incurfions; and the teritcry of our ally, the nabob of Aroot, had often fuffered devaftations that are fill remembered with horror. The Britith, who were bound by treaty to be the protectors of this prince, had their own territories plundered extenfircly; and, on one occafion, had been forced to fubmit to an ignominious peace, which was ditated to them at the gates of Madras.

The French officers in India, mary of whom had Influence of long been entertained in the ferrice of Tippoo, had the French: communicated to his policy that marked hothlity againft over the the Britifh nation, by which it was fo peculiarly difin. guifhed. A fplenaid embaliy, which had been difpatched to France, retarned previous to $1 \% 89$, before the breaking out of the late war ; which mult be regarded as the commencement of a regular fyftem of holfility for the entire overthrow of the Britith power in the eaft.

Although the events of the French revolution operated to divert their attention from prufecuting the objects of this new alliance, the power of 'lippoo had become fo form dable to the Britilh government, that the revenues of Madras and Bombay werc inadequate to fupport the forces neceffary for their defence. Large

India. fupphies Loth of trocps and of monery were required from F.urope; and experier.ce had fully proved, that u:lelis the porwer of the kings of Myfore was reduced, the Britilh polfeflions in the caft could not be retained without incurving an annual lofs to the flate.

Happily the power, talents, and ambition of the prefent fultan were fully known to the whole of India. His vicws of univelfal conquelt had alarmed all the native powers of the peninliula; and both the Nizam and the Mahrattas were roufed to combine for their own defence. Tippoo was the firt Mohanmedan prince, fince the eftablillment of the Mogul empire, who openly difclained the authority of the king of Delhi, or Great MIogul. He was the frit alio to imprefs coin with his own titles; a mark of difrefpect which none of the native governments had ever thewn. The great feal which lee adopted foon after his father's death, and which he affixed to all his pablic deeds, declared him to be "the meffenger of the true faith," and announced his ambition to afpear as a prophet as well as conqueror. In the fuirit of eaflern vanity, he not only declared hinfelf the greateft king on earth, but announced himfelf to be the reftorer of the Mohammedan faith; and to avail himfelf of the enthufiafm of his feet, he invites all true Muffulmans to join his flandard, and not only to drive the European infidels out of India, but to ellablith the empire of Mohammed over the world.

An ambition fo openly avowed, and to an extent fo inordinate, created immediate alarm among the native powers of India. It rendered an union peculiarly neceffary between the Nizam and the Mahrattas; flates who differed in religioi, in government, and in evcry point of intereft, except that fear, which combined them againf this powerful adverlary, who was ever ready to attack them, and who, in fact, already commanded their fouthern frontier.

The policy of the Britifl, who had earlier forefeen the danger, led them to adopt a fill more vigorous preparation than the native powers. Four additional regiments had been sailed in Europe, and fent to India under General Abercromby and Colonel Mufgrave; and as early as 1788 , there were in that country thirteen European battalions, confifting of 8000 men , befides the troops in the company's eflablifhment. Earl Cornwallis, and feveral of the firf officers in the Britifh fervice, were appointed to command them, under a new fyftem, by which the powers of the governorgeneral and commander in clief were united in the fame perfon. Thus the counteraction of difierent authorities was avoided, and every advantage fecured which might give efficiency to the operations of warfare.

Happily for the execution of thofe views of defence, the climate of the My fore, like all the central parts of the peninfula of India, is temperate and healthy, in a degree fupericr to that of any other region of the globe lying within the tropics. The monfoons which deluge the coafts of Malabar and Corommel, have their force broken as they approach the high mountains of the interise, where they fall out in howers, which, though heavy, are not commonly of long continuance. The verdure of the country is thens preferved; and the temiperature of the climate is moderated threughoont almon the shole year. The Britifl army was therefore able
to remain comfatitly in the field, during the whole wat; and although they did not enter into cantonments, or leave their tents, yet the health of the troops did not materially fuffer.

The military operations againf Tippoo may there-Operat on fore be divided into campaigns, not fo much from the thine Br clange of feafon, as from the fuccel's or failure of the $\frac{\text { Tiph agair }}{\text { Tippo. }}$ feveral plans of attack that were carried on againft that prince. The firt campaign commenced in the month of June 1790 , and was directed to the fouthern part of the peninfula, with a view to relieve the rajah of Travancore, whofe country had already been attacked by the fultan. During it, the main army was commanded by General Meadows; and before the end of the year, it effected the reduction of his rich provinces below the mountains; while the Bombay troops, under General Abercromby, conquered the valuable diftricts below the Ghauts on the weit and north, as far as the river Baliapatam.

The fecond campaign was carried on by Earl Cornwallis, in the heart of Tippoo's dominions. Though unfuccefsful in effecting its ultimate object, it was diftinguilhed by the capture of the important fortrefs of Bangalore in the interior of the country; an event which fixed the feat of war in the enemies territory, and was decilive of its final fuccef. A fuccessful battle was alfo fought in the vicinity of Seringapatam; and a demonftration made againft that capital, which, from the adranced feafon and the fwelling of the Cavery, proved abortive.

The laft failure, which muft in part be afcribed to the delay of the IIahratta armies, and the want of provifons, was foeedily followed by the arrival of thefo allies, and by preparations for a freft campaign. As thefe new efforts completely humbled the fultan, and produced a fuccefsful termination of hoftilities, it is neceffary to detail them more particularly.

The feafon of the year, which, after the battle in ingi, prevented an immediate attack of Seringapatam, was alfo unfavourable to the numerous draught cattle belonging to the army. They were infected with an epidemic diforder, which was aggravated by famine, and killed them in valt numbers; while the remainder, from difeafe and hunger, became unfit for fervice. Meanwhile the fcarcity of grain, of arrack, and every article of fubfiftence, daily increafed : this fearcity became at laft fo urgent, that the camp followers, which in India are four times as numerous as the fighting men, were reduced to the necelifty of devouring the putrid thefl of the dead bullocks; and to add to all thefe calamities, the fmallpox unfortunately raged in the camp.

Similar diftrefies were fuffered by the Bombay army, who, with infinite labour, had dragged thair artillery for 50 miles through the mof fteep and difficult palles, in order to co-operate with Lord Comwallis. Unable to form a junction, from the fwelling of the C.wery. and the badnefs of the roads, they were compelled to retrace their fleps over thofe valt woody monntains, which form the immenfe and impregnable barrier between the kingdom of Myfore and the Malabar coatt. In this perilous retreat, the battering train of both armies was unavoidably lon, being too unwicldy to be moved by the fmall notion of draught cattle which now furvived; upwards of $+0,000$ had alrcady perithed fince the commenconent of the campaign.

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Fudia, Ditappointed of the relief and aflitance which the junction of the Bon'bay troops might have atforded, the poftion of the main army became a feenc of the greatelt dittrefs. The icnts and clething of the troops, as we!l as their provitions, were nearly worn out. Great part of the horles of the cavalry were to lar reduced by want and fatirue, tha: they were unable to carry their riders. The gronnd at Caniambaddy, where it had encamped for a fow days to favour the junction, or to protect the retreat, of Gencral Abercromby, was covered to an extent of fereal miles, with the carcafes of the cattle and horles; and the latt light of the gun carriages, carts, and ilores of the battering train, left in tlames, was the melancholy frectacle which the troops beheld, as they pafied alung, on quitting this deadly camp.

Fortunately for them in this dreadful fituation, they were met, before they had finithed the firll day"s march, by the allied force of the Mahrattas, under Purferam Bow and Hurry Punt. Every defpatch fent to thele chiefs had been intercepted by the vigilance of the enemg. They were attonihed when they learned tho difatlers which had been occationed by their delay : their arrival, which evinced their fincerity in the caufe, produced general fatisfaction in the Britill camp, and a conviction, that the ruin of the fultan, though delayed, mult now become certain and inevitable. Tippoo himlelf, on feeing his enemies firm and active in their union, was not infenfible to the dangers that awaited him. Before the allied armies left the vicinity of his capital to forward their preparations for a new campaign, he made overtures to Lord Cornwallis for the conclufion of a pence ; but that nobleman would liften to no terrss of accommodation in which his allies were not included, and which were not preceded by the releafe of all the prifoners that had been detained during the prefent and former wars.

The arrival of the Mahratta troops, amounting to 32,000 cavalry, however fortunate it might be deemed at the critical monent in which it happencd, brought little additional effective ftrength to the allied army. Their battalions were unwieldy, irregular, and ill-difciplined : their force had declined as much as 'Cippoo's had advanced in improvement; and they were at prefent far inferior to thofe troops who, under Madha Rows, had defeated Hyder Aly in 1772. Their chiefs were, however, overjoyed that they had effected a junction nearly on the foot where that fignal victory had been obtained. They were pleafed at having met the Britith army without having occafion to try their ftrength lingly with Tippoo, of whofe difcipline and abilities in the field they entertained a deep apprehenfion.

To avoid confufion and interference, they were encamped at a diftance from the Britifh troops. Their ground, from the number of followers, and their famibies, had the appearance of a large town, or of a whole nation emigrating from its territory. The tents of the chicfs are placed around their general's, without any regularity or order. They are of all dimenfions, and of every variety of colour, refembling houfes rather than canvas. The ftreets, winding and crolling in every direction, prefent the appearance of a great fair; in which imiths, jewellers, merchants, and mechanics, are difplaying their wares, and as bufily employed in their

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trades, as if they lived in their own capital, and enjoyed a profound peace *:

The itate of their artillery, upors which modern warfare lo much depends, will at once denonftrate the imperfection of the military fyllem among the Mahrattapaign in Itater. In the conftruction of their gun carriages, they India in make little ule of iron, but for their trength they truil 1992, by to the bulk and folidity of the timber: Hence they are unwieldy from their weight, and clumly heyond all belief; the wheels, in particular, are heary and low, being formed of large lolid pieces of wood united together. The gums themelves are ponderous in the extreme, and of the mot irregular dimenfions; each is painted in a fantatlic manner, and bears the name of tome one of their garls. Not a few are dragged after the army long alter they have ceafed to be lerviceable, from the great cilimation they are held in, on account of palt atchievements which they are fippoled to have performed for the flate. Some of thele ulelels impedi-and ftate ments of a march are dragged along at the immenfe or ahe rmio expence of 100 , and fometimes $1 ; 0$ draught cattle litary $\mathrm{fy}^{\mathrm{fy}}$ roked in pairs. The mot infurmountable obilacle to the efficiency of the Mahratta artillery, was the fearcity of ammunition with which they were provided at this period; fubfequent improvements have enlarged this fupply, and rendered them far more formidable to their enemies.

The infantry of this nation holds a rank, if pofi-
ble, tlill more contemptiole than their artillery. Its officers are half-calt Portuguefe or French; aid the officers are half-calt Portuguefe or French; and thee
privates confitt of outcalts of every decript:ont, who are uniorm in nothing but in the wretched condition of their mufkets, ammunition, and accoutrements. The their murkets, ammunition, and accoutrements. The
Iahrattas themfelves hold them in contempt, ride through them on the march, without ceremony, or even the appearance of refpect. If there happen to be a the appearance of refpect. If there happen to be a
few Europeans among the officers and men, which in thefe times was but feldom the cafe, they execrate the fervice, and till they find an opportunity of clcape continue to deplore their fate.

The cavalry is the favourite portion of a Mabratta army; and it is to his horfes, and the bazars. that the attention of erery chief is almof folely directed. On attention of esery chief is almoft folely directed. On daybreat, while the chiets and their prineipal followers remain upon the ground finoking their hookahs till they
have advanced fome miles; they then follow, each purremain upon the ground finoking their hookahs till they
have advanced fome miles; they then follow, each purfuing his own route, attended by his principal people; while the inferior ranks difperfe over the country to plunder and forage in every direction.

The troops of the Nizam at this period joined Lord Troops of Cornwallis and the Mahrattas; their ftate of equip- the Nizam ment and difcipline was almoft in every refpect as join the wretched as that of the Mahrattas. Their forces, when united, amounted to about 80,000 men; and if to thefe be added four times the number of camp-followers, brinjarries, and the carriage department, the number of Arangers to be fubfifted in the Myfore alone, canno: be much lefs than half a million. That no diftrutt. jealouly, or counteraction, thould have ditturbed the combined operations of luch an immenfe multitude, mult be afcribed to the unexampled moderation and vigilant conduet of the commander in chief. Such a valt army had never takell the field in India in the Britilh
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caule; yet no murmurs, or even the flightel appearance of diftuft, were ever manifefted thy the allies towards the Eritif commander. They fubmitted with implicit confdence not only to his arrangements in carrying on the war; but, which was little to be expecied among allies fo much alive to their particular interefts, they acquiefed in his difribution of the conquered territories with a deference which evinced the moff perfeet confidence in his liberality and jullice.

The fteady co-operation, however, of any native power with the Britifh army in the feld, is a circumitance hardly to be looked for, ald muft therefore prove a refource on which no commander would choofe to rely. His patience will often be feverely tried by their irregularities and dclays; and in the moff critical cmergencies his views may be fruftrated by their want of punctuality, or by a total failure in their engagements. Even in the article of provifions, the prefence of the native armies, batilng the temporary relief at their firlt junction, proved a much greater annoyance than a bcnefit; for it increafed the rumber of mouths to be fupplied, in a country defolated by its friends as well as by the hollile armies.

With thefe coadjutors, Lord Cornwallis fet out in the monhls of June, towards Bangalore. He determined on a new and circuitous route, northnard by Naggenungulum, that he might accomplinh fome of the important ubjects recerifary to enable the confederates to commence another campaign. He had to enable the Mahrattas to withdraw the pofts, which they had Jeft on their march, when they adranced from Poonah towards Seringapatam. He had to confine the fultan to as fmall a purtion of his territory as practicable, and thus to oblige him to confume the provifions which he bad laid up for the defence of his capital: and, laftly, he had to gain time for colleeting and bringing forward the weft fores of camp equipage, provifions, and fupplies, which he bad ordered for the fucceeding campaign.

In order to facilitate the communication between the Myfore and the Carnatic, from which the fupplies were chiefly to be drawn; the various hill forts, which command the difierent pafles, were to be reduced. Wany of thefe fortecfes, from their fituation upon high and precipitons rock.s, are of fuch itrength that they have alsays been deemed impregnable by the native armies of India. In ancient times they formed the inacceffible retreats of the rajalhs who ftill retained their independence; and it was not till the vigorous adminiתration of Tippoo and his father, that they were brought into fubjection and garifoned by the Myforean troops.

Among thefe forts, Savendroog, Chittledroog, and Kifnaghury, are the moft remarkable in puint of natural fltength. The firft of thefe confints of a walt mounatanous rock, which rifes above half a mile in perpendicular haight above its own bafe, which covers a 「pace of cight or ten miles in circumference. This rock is forrounded by walls on every fide, and defended by crofs barriers wherever it was deemed acceffible. Towards the upper part, the immenfe pile is almoff precipitous, ard has the farther advantage of being divided on the tup into two hills, which have each their defences, and are capable of being maintained independerit of the garifou in the lowicr works.

To the fiege of this tremendous fortrefs, Lieutenantcolcnel Stewart conmanding the right wing of the main army was appointed. The attempt commericed on the 10 oh of December, when this ofticer pitched his camp within three miles of the north fide of the rock. The formidable appearance of the place itielf, had with-Savendreop drawn the attention of the troops from a circumflance befieged, which proved on trial the clief obftacle to the execution of their arduous attempt. It confilled in the formation of a gun road frora the camp to the foot of the mocuntain. Whis was found a work of incredible lan bour, fince it led through a long tract of rocky hills, thickly planted with bamboos; and after every effort, the battering guns were fill to be dragged over rocks of confiderable height, and of an afcent almolt perperidicular.

This celebrated rock, fo difficult of approach, and of fuch immenfe flrength, is no lefs famed for a noxious atmofphere, occafioned by the hills and immenie tracts of wood by which it is furrounded; the appellation of Saikndroog, or Rock of death, is faid to have been given it from the noxious and fatal nature of its climate. 'Tippoo Sultan, fcrifible of all its advanitages, congratulated his army on the infatuation of the Britill which had at laft led them to an enterprife which would freedily operate their difgrace, and terminate in their ruin. One half of the Europeans, he afferted, would be deftroyed by difeafe, and the other half he was confident would be killed in the affault. The garrifon which Tippoo had felefted for the fation of Savendroog were of the fame fentiments with their mafter: regarding the attempt to reduce it as madneis, they fortunately trufted more to its firength, than to their orm exertions for its defence; and hence, little or no oppofition was made to the crection of our batteries, farther than the ill-directed fire of their artillery produced.

In three days, during which it was found neceffary to advance the batteries nearer to the wall, a practicable breach was effected, and a lodgment made for the troops within twenty yards of the breach. The ftorming party, which confifted chietly of Europeans, was led by Lieutenant-colonel Nirbet, and was divided into four different parties of attack, in order to fecuse bo:h hills into which the mountain was divided, and to diffract the attention of the enemy. Each party feccecded in gaining its object; for a and take large body of the enemy who were feen in the morning coming down for the defence of the breach, on obferving the Europeans advancing to the Itorm, was feized with a panic, and fled. The eaftern hill immediately above the breach, was carried by Captain Gage, without meeting, or even overtaking, the enemy; the main body of which endeavoured to gain the weftern hill, and, had they effesied their object, the fiege mult have recommenced. Happily, however, the pathway leading from the breach to this hill is fo fteep and narrow that the fugitives impeded each other, and the affilazits prefied them fo haci, that they entered the different batieries along witi the enemy. In thefe numbers were killed, among whom was the fecond killadar; and the citadel on the fummit of the hill was at laft gained, where the firf killadar was made prifoner. So clofe and critical was the purfuit.

India. ont this fortunate occafion, that a furjeatit of the 7 ift regiment, when at fome dillance, thot the man who was in the aft of fhutting the frit gate; and upon this occurrence, almott accidental, the fate of the citadel hinged. It was inftantly taken, without the lofs of a fingle man; although an hundred of the encmy had been killed during the advance, and many had perifhed by faling from the precipices in eadearouring to efcape. Only one private foldier was wounded in this remarkable aflault of the impregnable fortrefs of Save:1droog: it formed a difplay of fuccefful prowefs, fortunate almoft beyond example; and it exhibited before the enemy, in open day, an inftance of intrepidity, of high value to the reputation of the army and the interefts of the India government.

The beneficial confequences of this important capture, were fenfibly felt at the different forts, alnoft impregnable, by which this part of the country is fo remarkably ftreng thened. Colonel Stevart's detachment, which had been fo much ditinguiftied by this atchievement, marched in two days againt Outredroog, another fortrefs ftrengthened by five different walls, and fo tho fleep as to prove tenable by a landful of men againtt the largeft army. After the refufal of a fummons to furrender, the lower fort was efcaladed with fuch rapidity, that the killadar requelled a parley. While this was in agitation, an appearance of treachery was difcovered in the upper fort, where the garrifon were feen moving and pointing their guns againit the affailants. Fired at this fight, Lieutenant M•Innes led on the forming party with impetuofity; fome of the gates were inflantly broken, others were efcaladed, till five or fix different walls on the face of the fteep rock were palfed, when the troops gained the fummit, and put the garrifon to the fuord. So panic-Atruck were the enemy, when they faw a fingle European above the walls, that they could make no reffitance. The killadar was made prifoner, a number of the garrifon was killed, and not a few, terriiied at the arproach of Europeans with their bayonets, are faid to have precipitated themfelves from the rocks.

The affault of thefc fortreffes, which had hitherto been deemed impregnabie, made fo ferious an impreffion on the enemy, that in none of the hill forts, how- ever inacceffible, did they afterwards make an attempt to refilt the Britifh troops. Hence, the Arong mountainous country between Bangalore and Seringapatan, which, fudded with forts, had fo much checked all communication, now afforded fecurity to the convoys. Thefe now reached the army without oppofition; and the fupplies of warlike ftores of every defcription were as completely re-eflablifhed as they had been at the beginning of the laft campaign.

To prevent any futuse fcarcity of the great article of grain, the commander in chief encouraged the native hrinjarries, a clafs of men whofe employment is purchafing grain where it is cheap, and felling it to the army. By confantly affording regular payment and a good price to thefe native merchants, they fupplied :le camp to an extent far exceeding what could ever be furnifled by the moft extenfive carriage eftablithment. The grain-dealers had at this time paffes for no lefs than 50,000 bullock $s$, whofe rice was inflantly paid fer, as foon as it reached the camn, and orders given
for purchafing more from whatever quarter it could bc procured. This brought forth the refources of the enemies country as well as cur own ; for feveral of "Tippoo"s brinjarries, tempied by the certainty of payment and a high price, foid their rice in the Britilh camp.

Supplies being thus provided to an cxtemt fa: ex- Preprasceeding every former example, the allied armies, and ann ther the different detachments, were ordered to anfemble for campaigmanother campaign. The Bumbay troops, denlined again to act from the fame quarter as laft feafon, marched from Cananore, and arrived at the foot of the Poodichearim Ghaut in the month of December. Several weeks of hard labour were neceflary to drag the artillery. through woods extending near 60 miles, and over mountains of imnenfe height. Thefe mountains, which on the weft command a view of the Malahar coank, and on the eaft of the country of the Minyfore, forn an elevated ridge towering into the clouds, on which the rivers are feen taking their rife, and flowing in different directions, till they reach the eaftern and weftern flores of the peninfula. The friendly territory of the Coorga rajah furrounds the interior of this formichable pals, where a fmall opnofition might bio defiance to a whole army. This circumfance enabled the Bombay troops, confinting of 8400 men, with all their baggage and artillery, and a fupply of rice for 40 days, to penetrate with fafety into the Myfore frontier, which they reached on the 22d of January 1792. To facilitate the return of our army, batterics were contructed, and the defence of this pals committed to Lieutenant-colonel Peché with 300 men , a precaution which had not the fultan overlooked, he would have fuffered no iavafion on this quarter of his dominions.

The Mahratta forces, which had Separated from the main army at Eangalore, had fpent the leafon of the monfoon in a train of exploits which feemed to imply more than their ufual thare of activity. With the affiftance of the Bombay detachment of three native battalions, they took the important poft of Simoga, after defeating Reza Saib and near 10,000 of the fultan's cavalry. This brilliant fuccefs encouraged Purferam Bow to engage in an enterprife againt Bednore, which had nearly fruftrated the whole plan of the campaign, by protracting his junction with General Abercronloy beyond the ftipulated time. From this attempt, however, he was diverted by the arrival of Cummer-ud D-en Khan, one of 'Tippoo's beft generals, who had been difpatched againft him. This chieftain retook the fort of Simoga; but being too weak to encounter the Bow in the feld, the Mahrattas effected their junstion with the Bombay army, though fomewhat later than the appointed feafon. The main army under Lord Cornirallis, which had been fo actively emplayed during the rains in fubduing the hill forts, and in collecting the neceflary fores and reinforcements, was ordered ultimately to afiemble at Outredroog, one of the ftron:ref of 'Tippoo's forts, which was fituated within 50 miles of his capital. This place, being equally pacious and ftrong, was fitted up as a general hofpital, and formed into a magazine for the grain and public fores that were not immediately needed for the army. The battering train under Colonel Duff, and the laft convos. under Colonel Floyd, having fafely joined, the main army was at laft fully prepared to refume its enterprifes
againfe the fultan, who, in imitation of his father, when formerly attacked in 1767 , had encamped with the whole of his force in a Arong pofition under the walls of his capital.

One junction more was tiill expected; that of the Nizam or Soubah from Gurramiondah, the lower fort of which he had captured. This prince having left aftrong force to garrilon the place, marched again to meet Lood Cornwallis, who was detained in expectaticn of this event for leveral days beyond the time he had appointed for leaving Outredroog. On the $25^{\text {th }}$ of January, the young prince at laft arrived with his army; his youth and inexperience were put under the guidance of a minifter 60 years of arge, a man of great talents and eftablinhed reputation. The confederacy, which thus united the chief powers in the peninfula for the overthrow of a formidable and ambitious enemy, ras atiended alfo by an ambaffador, who arrived at this time, from Niadajee Boonfla the rajah of Berar. 'Jhe Pefhwa and the Nizam were themfelves in the field oar their relpective frontiers, and all India looked with anxious expectation to the event of this important cam-
guns, were entrufted to Syed Saib and ollier commanders. Ihe whole army of the fultan, thus flationed, confifted of about 50,000 men.

Eser fince the junction of the allicd armies, Tippoo finding lie could not keep the field, employed hie chief attention, and the labours of his main army, in fortifying this camp, and in firengthening lis defences in the fort and illand. The country had already been laid walle in the former campaign; and the fintan feemed to reft his hopes, that the Arength of his works and the valuur of his army wonld prutract the liege, till the want of fupplies, or the approach of the nooffoon, would again force his enemies to abandon their enter. prife, as they had been compelled to do on former occations.

Imprefied with thefe ideas, Tippoo made no attempt to interrupt our reconnoitring parties, who had been buffly emfloyed on the firlt day after their arrival in examining his camp. The diftance of our polition, and the abfence of the armies under General Abercromby and Purferam Buw, increafed his fecurity : for he did not imagine that Lord Cornwallis would venture to attack him without their affintance; far lefs cuuld he belicve that a fortified camp, defended by the guns of his capital and a porerful army, would be attempted by infintry alone, without guns, and in the uncertainty of night.

The promptitude and firit of Lord Cornvallis had fuggefted far different ideas, and a plan of attack which was bold beyond even the expectations of his own army. On the evening of the fixth of February, jult after the troops had left the parade, orders were inued for an attack at $y$ o'cluck of the enemies camp and lines in three divifions. The Pritilh camp was left to be defended by the artillery and cavalty; while the air failants who were inflantly furnithed with guides and fcaling ladders, marched in perfect confidence that muf kets alone would prove the fittelt infruments for opening their way into the enemy's camp.

No part in the execution of this buld enterprife was affigned to the troops of the allies; nor was the intended affault eien communicated to them, till after the columns had marched. It was perhaps grod policy to Tippcos ${ }^{174}$ conceal from them a meafure fo repngnant to all their caup atmaxims of war, and in which they conld not potibly racked, concur. This opinion feems juflified by the furprife and contternation which they difplayed, on learning that Lord Cornwallis, like a common foldier, was perfonally to lead the attack on the enemies fortified camp. They not only deemed his fuccefs impolfible, but they dreaded that the ruin of the allied armies would be involved in the attempt.

The three columns into which the affailants had been divided, marched with equal intrepidity to execute the different objects that had been allutted them: many obftacles intervened ; varions contlicts enfued in different quarters of the enemies camp; each party was uncertain of the fate of the reft, and each indiridual of his affociates. The return of day at laft removed their fears and uncertainty, by difcloling the complete fuccefs which had crowned their exertions throughout the whole line of attack.

The right column commanded by General Meadows had met with more impediments than the reft; it attacked and carried the ead gah, a redoubt on the ene-

Buriz. mies left, which was defended by cight gu:s, and a numerots garrifon, nearly 500 of which fell in this attack. Conftlerable lofs was allo futtaned by the Britine in this reloubt. Afer its capture, the columa was s.gain furmed in its original order, and marciaed wi:h a view to Pupport the centre under Lord Cornwallis; but mit?aking the proper track, and making 100 wide a circuit, it reached the Carighaut hill on the encmies right, which had already been carried by Col. Manwe! !

The centre column about If o"clock forced through the bound bedges, anid!t a heavy fire from the fultan's redubt and Tippoo's lines. 'Theie, however, were alfo forced. The troups were now emabled to crofs the river, and penetrate into the illand. So clofely did they prefs upoa the fugitives, that they would have entered the citadel along with then, but for the precaution of raifing the drawbridge, which they had drawn up ai the moment of entering the place. So precipitately had lippoo been forced to abandon his tent in the fultan's recuubt, ilat his lilver Aticts, pikes, and mathematical ir. fluments, were found lcattered in the place. Jhe fort being inacceltible from the removal of the bridge, the advanced party forced into the town or pettah, which had been almoft abandoned for the cefence of the batteries. Here they found 27 halffarved Europeans, loaded with irons, and confined in a dungeon. Sume of the fe unhappy men, who were now relieved, had been cruelly given up to 'Tippoo by Admiral Suffrein; others were deterters, whom 'l'ippoo, however, had treated with equal fevcrity.

The left divinon of the attack, which was commanded by Lieut. Col. Maxwell, was dertined to take poneffion of the Carighaut hill, and from thence to defcend and penetrate into the illand on the right flank of the enemy. Thefe objects were effected with rapidity, and but little lofs, except in crofing the Cavery, which was deep and rapid, and at the fame time ftrongly defended by the enemy's batteries. In crofling the ftream, which at this place was neck deep, the ammunition was unasoidably damaged; but the troops prefled furward with the byyonet, and at latt joined the other divifions who were now afenbled at the pettah.

The enemy having lof all their pofitions on the north fide of the river, where tive fiege was to commence, and Almont the whole of the illand, every material olject of the affacle was fecured. Oil the fide of the Britilh, the lofs, though contiderabie, was imall in proportion to the importance of the tictor!, and the difaters of the enemy ; of whom, it afterwards appeared, that no lefs than 22,002 had either deferted, or been flain in the various conflicts duing this night of enterprife, danger, and death.

On the $7^{\text {th }}$, the enemy: as if athamed of the rapidity with which their different polls had been abandoned, made feveral attempts to recover them. 'Their efforts were directec chiently to the fu'tan's redoubt, commanded by Major S:bbald. Expoled to the guns of the fort, and the battcries on the illand, the major's littie party derended the place for the whole day; and havintr fuccefsfully repulfed the different affaults of the eneiny, they at laft, weary of the attempt, defifted from the enterprife. The endeavour which the fultan's troops nade to regain the pettah, met with a fimilar check; sud the night of the the would lave afforded fone re-
pofe to the ammy, had not the rumour of an iatonded attack by 'lippoo during the night, kept them oin the alert. That fuch an attack had been meditated, there was full evidence; but both the chiets and the foldiery were fo much difpiritat by the fatal train of cents that had fo rapilly taken place during the latt twenty-four hours, that they could not be induced to focond the zeal of their fovereign. During the various cominits of the 6th and 7 th, the fatigues and dangers of the Britilh army were levere; and its lols in killed, wounded, and mifing, was far from being incontiderable ( 536 men). The citent and importance of the acquititions gained by this briliant contell feemed, however, to compenfate every facrifice that had been made. It now occupied the lines and polls from which the enemy had been driven; and the works which bad been fo completely fortified for the defence of the capital, now became lines of circumvallation for its a:tack. 'J he troops on the one fide were broken and difpirited; on the other they were in pertect order, and animated with their secent fuccels. The Europeans in the Service of Tippoo, after the difatious events of the laft two days, now: defpairing of his fortunes, deferted to our army; and many of them enlited with the Manrattas; others retired to the French fettlements. After their departure. the fultan's army never encamped in order, or affumed a formidable appearance.

The Britilh army, now in poffeffion of the illand and town of Seringapatam, was immediately employed in making the neceflary preparations for the liege of the fortrefs or citadel. "I'bis enchanting inand being plentifully watered by the Cavery, and a val mumber of interfeding canals, maintains a perpetual verdure : on the eaft, it is decorated by the buildings of the fort, which occupies a mile fquare; on the welt, by the Laul Baug, containing the mauloleum of Hyder Aly, adorned by tall cyprefles, thaded walks, and a variety of trees, whofe foliage and perennial verdure amounce an cverlafling fpring. The mofques and religious buildings were conecrted into hofpitals for the wounded and fick; and the trees, now for the firit time allailed by the axe, furnilhed materials for fafcines and gabions for the approaching liege.

The proud mind of the fultan could not remain tranquil, on feeing his beautiful gardens and all his improsements threatened with deltruction, by an cnemy who was alfo preparing to deprive him of his citadel and all that remained of his power. His indignation was expreffed by a continual diccharge of canno:s from the fort, directed againlt the illand, the redoubts, and every party of ours that feemed within his reach. Some of his thot ranged as far as the camp, aimed apparently at head quarters: but the dittance of the feveral pofts was too great; and his ineffectual cannonade lerved rather to proclaim the wrath of the fovereign, than materially to annoy his enemies.

Tlired by thefe repeated cfiurts, which he faw were vain, and worn oat by the cbullitions of his own anger, Tippoo at laft began to meditate ferioully on the necelfuty of a peace, the only means by which he could extricate himfelf from his perilous tatc. In order to fmooth the way for his overtures, he previoully liberated two Britilh officere, who had been detamed comtrary to cajitulation in Coimbatore ; thefe ulficers, till nor the viçims of his cruelty, he loaded with prefents, ma! mad-
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## I N D [ 230 〕 IN D

India. Whem the bearers of a letter to I.ord Cornwallis fuing for peace. Anotber eapedient. more daring, but far lefs homourable, was neally at this time practifed to attain his deliverance. $\Lambda$ frall party of horfemen were defpatched to the Britith camp in the night, for the purpofe of affafinating the commander in chiet: as ttraggling parties of the Nizam's horfe were near, the troopers, miftaken for friends, had little difficuity in елtering the camp; and, but for an accident, might have effected their purpofe. Detectcd, however, by their inruiries for his lordihip's tent, they were fired at by a party of recruits; and fuch was the fpeed with which they made off, that they fuffered little damage in this difgraceful enterprife, which is fo often reforted to by the princes of India. This was the fecond attempt againit the commander's life during the prefent war : that both were unfuccefsful, mult be afcribed to that intoxication in which the natives are plunged, before they can be induced to venture upon fuch bazardous deeds.

Though Tippoo had recourfe to thefe vile projects, which he knew were countenanced by the practice of his country, he did not truft to them folely for his defence. The Bombay army which was at this time approaching, he combated and harafled by every effort of honourable war : its junction, however, with the main army was effected on the 16 th; and on the fecond night after this event, the trenches were opened, and a parallel formed within 800 yards of the north face of the fort. General Abercromby, fationed on the fouth quarter witls a frong detachment, was ordered to cannonade it from the beights. This attack being dire?ed againft the weakeft part of the fort, occafioned the greateft alarm. Tippoo himfelf, thercfore, at the head of his troops, marched to diflodge the general : being fupporred by the guns of the fort, he maintained the action for the whole day; but towards evening, he was forced to retreat.

This defperate effort was the laft that Tippoo made for his defence. His affairs haltened to a crifis; cabals were formed by the chiefs, and his troops deferted in multiudes during the night. Plenipotentiarics from the allies, fince that, had been treating with his vakeels; his haughty fpirit, hitherto untractable, was now forced to yield to their demands. He faw his capital blockaded on every fide by a powerful army, plentifully fupplied with provifions, which muft infallibly reduce his troops by famine, frould they even prove fucce ${ }^{\text {fful }}$ in repelling its allaults; even his laft hopes of relief from the monfoon, and the fwelling of the river, were thus final-

## 1;6 ly cut off.

Treaty of peace fign. en by lippoo.

On the 23 d of February, therefore, the preliminaries of peace were figned by Tippoo, amidf the conflicting emotions of pride, refentment, and fear; and orders were iflued to the troops on both fides to ceafe from farther hoftilities; a flipulation, of which the dread of an immediate affault alone inforced the obfervance.

By the terms of this trcaty, 'Tippoo was compelled to pay, as an indemnification fur the expences of the war, shree crore and 30 lacks of rupees at two inftalments, the
firf to be adranced immediately, and the fecond at the end of four months. Other articles of this inftrument proviled farther, that the whole prifoners taken from the allied powers from the time of Hyder Aly, f:ould be unconditionally reftored; that no lefs than one-half of his territories fhould be ceded to the allies; and that two of 'Гippoo Sultan's three eldeft fons thould be given as hoftages, for the due performance of the treaty.

The candid and upright conduct of Lord Cornwallis had gained the full confidence of all the allies. So complete was the afcendancy he polfeffed over their councils, that they fubmitted without a murmur to all the arrangements which he propofed; a circumfance (condering the deep interefts which were at flake) that mult be regarded as not the lealt extraordinary in this campaign.

The terms of this agreement, which refembled a capitulation more than a treaty, were hard, and Tippoo with great difficulty was prevailed on to fubfcribe to them. Another flruggle, perhaps ftill greater, yet remavied for his family. This arole from the diftrefs im his feraglio, on parting with his children. The fultan was entreated to requeft another day for making preparations for their departure; and Lord Cornwallis, though he had already difpenfed with their accompanying the treaty, as firl agreed, had the humanity to grant this requelt.

About noon day on the 25 th the princes mounted $\mathrm{H}:{ }^{1}{ }_{1}^{77}$ their elephants richly caparifoned, and attended with a livered u fplendid retinuc left the fort, the walls and ramparts of which were crowded with multitudes of fpectators. Amidat the vaft multitudes whom curiolity or affection had drawn out to witnefs this fcene, Tippoo himfelf was beheld ftanding above a high gateway, through which, as they paffed, the princes were faluted by the guns of the fort; a compliment which they again received as they approached the Britifh camp. They were leated in flver howdahs, attended by their father's minifter, and a numerous retinue. The proceffion which they thus formed, was equally grand and interefting. It was led by feveral camel harcarras and ftandardbearers, carrying green flags fufpended from rockets, followed by one hundred pikemen with fpears inlaid with filver. Their guard of two hundred Sepoys, and a party of horfe, brought up the reat (c).

In this order the princes proceeded till they approached the tent of Lord Cornwallis, who had ordered a battalion of Sepoys for their reception; where the commander in chief embraced them with a cordiality and tendernefs that refembled parental affection. The manners, drefs, and appearance of the young princes themfelves, formed an interefting §pectacle to their European hofts. Bred up from their infancy with infinite care, and inftructed to imitate in their manners the referve and politenefs of more advanced age, all prefent were aftonifhed to obferve the correctnefs and propriety of their conduct. Abdul Kalick, the eldeft, was of a dark complesion, even among the natives of India; but his countenance was marked by thoughtfulnefs and intell:.
gence.
(c) For the fubftance of this account we are indebted to an eye witnef, Major-general Dirom; who has favoured the public will an excellent narrative of this campaig:l. bly fair; a regular fet of features, with an onear appearance, rendered him the general favourite, and more admired than his brother. Clothed in red turbans and long white muflin gowns, cvery where farkling with emeralds, rubies, and pear!s, their external decorations difplaged a brilliancy far lurpafting every European idea of drefs, and feemed to realize thofe laboured deferiptions of fplendor, which are in the weftern world only feen in the pages of romance. Thus attired, the soung princes, immediately after their reception, were feated on each fide of Lord Cornwallis, when Gulam Aly, the head vakeel of Tippoo, thus addrefied the Britifh general: "Thefe children were this moming the fons of the fultan my mafter: Their fituation is now changed: They muft look up to your lordthip as their father."

The conduct of the commander in chief had perhaps fuggefted this addrefs: he had in fact received the boys, as if they had been his own fons; and he again anxioutly affured the rakeels, and the young princes themfelves, that every poffible attention would be fhown The fcene became more interefting; the faces of the chiidren brightened up; and not only their attendants, but all the fpectators, were delighted to obferve, that any fears they might have harboured were removed, and that they would foon be reconciled to their change of lituation. With regard to the youngent, this defirable object was likely to be firf attained. He was the favourite fon, and was faid to be the fultan's deftined heir: his mother, a beautiful and delicate woman, had loft her brother in a late action; and fhe herfelf had died of fright a few days before the attack of the lines. Thefe circumftances, together with his own captivating appearance, drew to the youngef boy the greatelt fhare of attention, and rencered his fituation doubly interefting.

After being regaled, in the eaftern manner, with otter of rofes and betel nut ; the princes were prefented each with a gold watch from Lord Cornwallis, a gift from which they feemed to receive great delight. On this occafion the minifters of the Nizam and the Mahratas attended with their filtes; and when the cezemony of their reception was ended, the princes were led back to the tents furnifhed by the fultan, which were of a green colour, an emblein of majefty which 'Iippoo always had carricd with hin into the feld.

The detaining of Tippoo's fons as hoftages, may be deemed a rigorous condition impofed on that prince; the event, kowever, foon proved, that without this precaution, he never could have been induced, unlefs by a renewal of hoftilities, to fulfil the terms of the treaty. The value of the money to be received, as reell as the rents of the different diftricts to be ceded, were keenly difputed. When the territory of the Coorga rajah, in particular, was required, the demand feemed unexpected both by the fultan and his minifters, and was at firft seceived with aftonifhment and difdain. This rajah was confidered as a chief caufe of the war, and Tippoo, therefore, wihhed to crufh him. Lord Cornwallis feem. ed cqually refolute in his defence; for he again manned the works, and threatened to recommence the attack. Happily, his fock of provifions was ample; and al.
though upwards of $+00,000$ ftrangers and hali a mat- Inid. lion of cattle were daily to be fed, the fupply was fatticient for the whole; while one million llerling of the fine impofed on 'Tippoo, had already been raid. The from determination of the commander in chief, aided by thefe circumflances, which were not unknown to the fultan, damped his refolution. His refentment cooled, and he fially implentented the terms agreed upoa, copies of which were delivered to the confedeated powers.

The war againfl Tippoo, which was now happily terminated, placed the dominions of the India Company and of their allies in a tlate of fafety and tranquillity which they had never enjoyed fince the aggrandifement of his ambitious family. In the former campaigns againft the Myfore, the civil and military powers sere placed in feparate hands; meafures were planned without either energy or uniformity of fyftem; and their execution being entrufted to other hands, feldom difplayed the promptitude or vigour neceflary to their fuccefs. They had often ended in the accumulation of debt, without adequate advantage ; fometimes they produced the devaltation of the company's poffefions; and hitherto they had uniformly increafed the power and pretenfions of the formidabie adverfary whom they were meant to fubdue.
This war jult concluded, was followed by effeets fuited to the energy and perfcuerance with which it had been conducted. The one half of his dominions was at once wrented from the hands of the common enemy; and while his power was thus diminihed, an additional ftrength and fecurity was conferred on his neighbours, by that impregnable barrier which was added to their territories. In the three different campaigns the fultan's lofs had been great ; in the laft, it feemed almoft irredecmable, not lefs than 67 forts were taken, 800 cannon fell into the lands of the allies; and the killed, wounded, and miffing of 'Tippoo's troops amounted to 49,000 men. At the conclufion of the treaty very few places of Atrength were left in his poffefion; his treafury was drained,', and the frength and fpirit of his army completely broken. To the moderation of the Britifh commander alose it was owing that he fill remained a fovereign; for he was at laft completely in the power of the victors. This moderation, but little merited by a cruel and vindictive enemy, he eafly forgot when his power was afterwards revived, and he permitted his French counfellors to perfuade him that he was again able to contend againft the Britifh government.
In the meantime, hovever, the India Company's Advantages territories fenfibly felt the advantages of the treaty of of this treanSeringapatam. The prefidency of Madrafs, which company, was noft expofed to inroads from the Myfore, has by company, that event fecured a chain of forts along its frontiers, which bas ever fince effectually freed it from the evils of invafion. The Carnatic, recovered from its former calanities, muft improve its revenue, while it is defended at a lefs expence. The Malabar coalt and prefidency of Bombay has esperienced, ever fince the vietory at Seringapatam. a flate of fill greater fecurity than the Carnatic. It contains a country the moft varied, and perhaps the moft fertile in India, which under a regular government may be improved to an extent at. prefens:

In... Frefort limof inconceireable. Hithertc, from being a fome of coniflnt war and bloudined, it has nut been fufferet io develope its refources.

While the relative fituation of the Britifl and the fulton were thus improved by the pacification, the intereth of our allies were perhaps till more eflintially berefited. 'The Mahrattas have gained an addition of flength as well as tetritury, by enlarging their frontier

150 and to the alhes. frum Darwar to the Tumbudra; and the Nizam has gaim a fimilar advantage, being frengthened on the one iide by the fame river. and on the other ly the Sanar and Gungecota. Both powers are by their pofition placed nearer the aid of the Britilh, to whom they muft in future look up for their defence againft all their enemies, as well as the aggreffions of the Myforean armics. During the feven years tranquillity that fucceeded this memorable campaign, the armies of both thele powers, having no external enemy to call forth their exertions, gradually relased in clifcipline, and atlumed a dill more tumultuary and unmilitary appearance.

On the other hand, the troops of Tippoo, from his unconquerable holtility to the Britifh power, and from the fecret inftigations of the French, were kept in a tate of confant preparation, by which their dilcipline was improved. The influence of time, and the refources of a vigorous government, gradually repaired the raft loffes which had been fultained during the three lat cantuaigns. The power of the Mylorean court had indeed been much impaired, but it had lo:t none of that antipathy and hatred againt the neigh. bouring fiates by which it had always been diltinguithed.

Of all the confederated powers engaged in this war, the Britith derived, perbaps, the fmalleft thare of the direst and inmediate advantages which refulted from it. The prize-money thared by the army, although increafed by the renunciation of the thares of Earl Cornwallis and General Meadows, was not great; and the territories that were ceded to the India Company being difunited and at a dillance, feem to have been demanded rather with a view to weaken the common enemy than to add to their refources. Prior to the year 1799, the period of the final conqueft of Seringapatam and the Myfore, more than two-thirds of the ancient territory of the Mogul empire Atill remained in the hands of populous and independent flates, profeffing either the Hindoo or Mohammedan faith. dinong the latter, the Nizam and the king of Myfore ftill held the chief rank; while five powerful Mahratta chiefs, the adherents of Brahmanifn, occupied the firf ftation in the former clafs.

Some of thefe princes, during the former wars in Hindoftan, had individually arranged themfelves on the fide of the monarchy of Trance, againft that of Britain. 'Thefe rival and leading powers in Europe, had for near a century occupied a fimilar pofition in the eaft, which decided in fome meafure the fate of Afa, The zepublican councils, however, by which the French government had been lately fubverted, embraced a much wider range in their foreign policy.
'I'hey attempted to form at once all thefe different princes eollectively into a combination, which they hoped might become the inftrument of their own ambition. Hence proceeded their warm profellions of philanthropy to the natives, and their newrborn zea!
for improting their condition, and for relcuing them from the rapacity and tyranny of the Britili. The fame unperilable thirlt after extemal conquett and univerfal dominion which inftigated that nation to attempt thofe momentous changes, which were lately beheid in Lurope, began to ditplay their vio!ence in the eatt, and to characterize the whole of the Fiench policy in isha. Confidential agents liad already been difperfed over the territories of theie prinees; otferers from. vance had oeen fecretly lent out and appointed to their armies. For feveral years thele agents had been feduloully employed not only in difciplining their troops, but in promoting among the native princes a combination for the purpofe of fubverting the Mritilh government, and for annihilating thronghout the feninfula every pouer that might be deemed holtile to their own.

Thele fohemes of ambition, wild and romantic as they may feem, have been executed with complete fuccefs over almoft one halt of Europe; and it mult be confefled, that the power of the mighty confederacy which was projected in the ealt, was more than futhcient to fuljugate the whole of India, had it been jiulfille to effect the fleady co-operation of its members in any common lyftem of policy. A clofer vies of it will evince its power and efficiency for the execution of the moft extenuse plans even of French ambition.

The Mahratta empire, by being properly confulidated, mult of itfelf command an immenfe force. Stretching throughout the whole length of the peninfi:la, from the bay of Bengal to the banks of the Incus, its population has been eltimated at no lefs than forte millions of fouls; while its known revenue has beel found to amount to feventeen millions ferling. Thele refources, however ample, it mult be noticed, are far more efficient in India than in Europe; they have there been found by actual experiment, adequate to the eftablifhment and conftant mainten ance of an army of upwards of 300,000 men. Nor has the progrefs of the French emiffaries in communicating European tactics to this immenfe force, been at all inadequate to the vaft fchemes of their policy, or to the magnitude of their undertaking; many battalions in the fervice of the Pefliwa and of Holkar, but more efpecially in the effablifhment of Scindiah, have been found in a fate of difcipline that might have been deemed creditable in moft European armies, Among the troups of this latter prince, the brigade of General Perron has long been diltinguithed by a fyllem of tactics hardly inferior to that of the Britill Seapoys; it confifts of about 40,000 men, who are regularly regimented and brigaded, and as completely clothed and accoutred as the Britifi troops. The pay of this force is regularly illued, a sare occurrence in India; and while in the field, its operations are fuftained by a well appointed artillery, confifting of upwards of 40 pieces of ordnance.

To the charge of this favourite portion of his army Scindiah has for fome time paft committed the capital of the empire, and the cuftody of the ve:acrable but unfortunate Shah Allum; a monarch who, it is faid, has reached the uncommon period of 90 years; and who, it would appear, is more wafled and broken down by an unexampled load of calamity, than by cither the weight or feehlenefs of his fingular age. The forcible reftraints to which this unhappy prince has for many

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India. years been fubjected, eafily enabled the French party among Scindiah's troops to wreft from him the fanction of the imperial name, and the femblance at leaft of legitimate authority; a matter of fome moment, as it lerved to fcreen the progrefs of ufurpation. It was accordingly in the vicinity of the capital, and almoft in the prefence of the dethroned emperor, that the projects of French ambition feemed to tend to maturity with the moft fteady and rapid courfe. Confiderable adrances lad already heen made towards the formal ceflion of the important provinces of Agra and Delhi to the French government, and towards their final union with that diftant kingdom.

Fortunately for the independence of the neighbouring flates, and the fafety of the Britith empire, that nobleman who at this critical period had been appointed to the government of India poffeffed a complete knowledge of the character and views of the French nation. Suon after the arrival of the marquis of Wellefly in the eaft, his innate penetration, and unwearied induftry in acquiring the knowledge of Indian politics, enabled him to difcover the whole rarge and extent of thofe plans of hoffility which the French had meditated in Afia. He was fully apprifed of the dangerous fituation of the Britith empire in that quarter of the globe; and with equal promptitude and energy he em. ployed the whole refources of its power in otder to avert or repel the danger.

It was, however, at Hyderabad in the Deccan that the impatience and activity of French intrigue firft compelled him to meet actual hoftility in the field: an infurrection of the French officers there had wrefted from the Nizam the whole authority over his army, and in fact, had already converted that faithful and peaccable ally of the Brizifh into an open enemy. By a fudden and unexpected movement of a fmall part of our army, that had been prepared for this purpofe, thefe officers were all fuddenly apprehended, and the allegiance of the Nizam, and the fubordination of his army, were almoft inftantaneoully reftored. This firt act of the marquis Wellefly, though fcarcely heard of in Europe, certainly augured favourably of his government ; for it not only paved the way to his fubfequent fuccefs againी the Mylore, but from its promptitude and decilion it deferved to be ranked among the molt meritorious meafures of his whole adminitration.

The vengcance of the king of Myfore, for his former loffes and defeats, had no: fuffered him to enjoy a moment of tranquillity after the late pacification (D). He had in fact been raifing up a Mohammedan confederacy, which was to confift of the grand feignior, the Perfian chiefs, the nabob of Oude, and the Nizam; and was intended for a purpofe, no lefs fplendid in the eyes of the faithful, than the cxtirpation, not only of the Britith, but of all the enemies of 1famifm throughout 1 lindoftan. The army of this prince was fully prepared to take the field, but the fortunate event that has

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juft been related, had deprived him of the co-operation of the Nizam, his nearef, and therefore his moll eflicient ally.

The native princes of India are in general far more prompt in imbibing refentment, and in learning maxims of holtility againf their neighbours, than cautious or prudent in their application. Their French inftructors were alfo, at this period, fo much intoxicated with the new form which their own government in Europe had affumed, that they bed inflituted a fociety, in the capital of Myfore, for the romantic purpofe of fpreading the do月rine of liberty and equality among the defpots and ीlaves of Afia. The forereign of Myfore himfelf was eafily perfuaded to become an honorary member of this inflitution, where he appeared among its affociates under the name of Citizer 7ippoo, an appellation perhaps the moft awkward and incongruous that had ever been affumed by an eaftern defpot. The wild and frantic orifons that were daily poured forth in this club, in favour of an imaginary liberty, were conftantly accompanied with fentiments of deteftation, and vows of eternal hoftility, againft the Britifl government; its forces were therefore inftantly prepared and marched into the field to meet an aggrefion, which there had been fo litt'e care tak:en to conceal. Palt experieace had taught the Britih officers to avoid the purfuit of a native arny in its rapid and difcurfive evolutions in the field; the Britifh, therefore, marched directly towards the capital of the enemy, which fell, but not till two decided rictories had been obtainel without its walls, and alfo an obfinate defence had been made in the interior of the city. In this lafl conflict (x), which Fall of Tip. was maintained by both the aliailants and the matives poo with with equal valour and obitinacy, much blood was fpilt, and the lives of many brave men were loft, among the reft that of Tippoo Sultaun, whofe body was found, after long fearch, among heaps of the flain, where he had fallen nobly defending the laft bulwark of his kingdom, and where, however untontusate he may be deemed in other refpects, he at laf met with a fate not unworthy of his bravery.

By the pacificaich at Hyderahad, the fall of Seringapatam, and the death of Tlopoo Sultaun, the Mohammedan branch of the grand confederacy, which the French had raifed againft the Britiss power in India, was completely broken and finally deftroyed. For although the few remaining adherents of the deceafed monarch made fome defperate efforts for the refloration of his family, thefe werc rencered abortise by the activity and vigilance of thofe Britilh oflicers who had been left in charge of the conquered country ( $F$ ). The c.mpaign againft the Myfore was, therefore, completed by a fignal act of juftice, as creditable to the government of India, as the late brilliant fucceffes had been honourable to the Britifh arms. The greater part of the vanquified territory was reflored to the rajah of My fore, and his ancient family again mounted that throne, G g
from
(i) Fffected by Marquis Cornwallis.
(:) This memorable attack was led by General Baird, who had been for thrce years confincd in a dungeon by the tyrant.
(F) Particularly by Sir Arthur Welle:ly, who fignalized hinefelf by the defeat of Doondea Waugh, the moft fteady adterent of Tippoo.

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rndia. from which they had been driven by the treachery and ufurpation of Tippoo and his father: nor did the vengcance of the Britih, though lurled with fuch deftructive rapidity againtt the moft formidable and inreterate of all their enemies, prevent then from affording fympathy and relicf to the furviving family of the Myforean kings; ample endownents were fet apart for their fupport, which they Itill continue to enjoy, with perhaps equal comfort, and cettainly with greatre liccurity, than in the moft profperous days of the fortunes of their houfe.

This train of important and fucceffful events took place during the fhort fpace of only a few months after the arrival of the marquis of Wellelly, and they certainly entitled his adminiftration to rank with the moft a tive and brilliant that had ever been difplayed by any governor of India; according, however, to his views of the flate of that country, he mult have regarded his labours as fcarcely laalf finithed. He faw the immenfe power of the Mahratta empire fill remaining not only unbroken, but daily increafing, and confulidating under the active aind unceating operation of French influence. A French Hate, as already noticed, of large extent and formidable power, had been framed by the fucceffive labours of Generals de Boyne and Perron, around the capital of India. This nafcent porer the ail-devouring ambition of the new emperor had already grafped as a rich prize, and its deltruction became therefore abfolutely ncceflary to the fafety of our empire in India, frace, amidat all the multiplied aggrefions of his neighboure, the ufurper had uniformly ditinguifhed the Britih nation as the marked, though perhaps not the ultimate object of his honlility.

The reduction of a hoftile power fo immediately in the vicinity of our poffefforns, might certainly have juftificd a war; but as no actual aggretion had yet been committed in that quarter, it was on the other fide of the peninfula that the marquis of Wellefly was again firlt called upon for the active fupport of the interelt, of lis grovernment: the danger became at once preffing and immediate by the ufurpation of the whole Mahratta power by a fingle chicf; and the caufe of the fugitive

No halance The politics of Indid were never fo refined, or con. of power known in Indian politics.
of fovereigns to imbccillity, and, owing to the perfonal ambition of their fervants, fell into a fation, if not of abfolute privacy, at leait of complete infignificance.
'Iheir miniters, already become hereditary in their offices, and too powerful for controul, had fulficient intluence to remove the feat of government from Satarals, and to conflitute the town of Poonah the capital of the empire. There, removed from the eyes of the princes, they no longer deigned to preforve further allegiance, than the fimblance of delegated power; they accordingly retained the appellation of Pelhwa, Lut compelled the fubordinate members of the confederacy to acknowledge them as the legitimate organ of the whole executive power of the flate, whether civil or military. It is, however, fearcely poflible, accurately to define either the rights or the power attached to the Pethwa, atter his being acknowledged reprefentative of the fupreme head of the cmpirc. The extent of his presogatives feems to have varied at different times, according to the perfomal talents and ambition of cach incumbent in the exercife of this recent power.

Bajee Rao , the prefent Pefluwa, from that imbecillity and indolence which in Ala is fo often attacled to high fiation, had devolved upon inferior agents almoft the whole of the active duties of his uffice. His power had frequently been difputed or controlled; he had at different times nearly beconce a prey to the ambition of the fubordinate chiefs; and, at the period now under review, thoughs defended by Sciudiah, he had been completely defeated by Holkar's troons, and obliged to thee for fecurity besond the limits of his own dominions.

The danger to the Britifh pcffeffions, and thofe of their allies, tecame prefling and immediate, from this ufurpation of almoft the whole Mahratta power by the hands of a fingle chieftan; and the caule of the Pefhwa thus became identited with that of cur India gevernment.

A treaty of defenfive alliance between the India Company and the $P_{t}$ inwa, was therefore drawn up at the earneft folicitation of that prince, and was finally ratified at Batiein, where he had tled from the aggreffions of Holkar for proteftion. By this inflement, it was Ripulated, that be floculd be reitored to his dominions, and to the exercife of his legitimate authonity, on condition of his maintaining, for the defence of his territories, and at his own expence, a brigade of Britill troops; which it was at firlt agreed floculd confilt of 6000 , but afterwards the number was increafed to 10,000 men.
'ihe terms of this convention were no fooner arranged, than the Britith army, under Sir $\Lambda_{1}$ thur Wellefly, marched towards Poonah with that promptitude and decifion which have always diftinguilhed the furvices of this valuable officer. The rapidity of his movements, and Poonah his unexpected advance, faved the capital fron deltruc-ken. tion; for the troops of Holkar, who had continued to pillage the city, fince it fell into their polfellion, had at laft refolved to fimith the cataftrophe, by fetting it on fire. Alarmed, however, by the Cudden aproach of the Britin army, they fled from the place with the utmof precipitation, and foon after abanduned the territory of Poonah. Room was thus made for the peace-

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1ndia. able refloration of the depofed fovereign; and the Peft wa, when he a'terwasds arrived, was receised by his fubjects, not merely with fubmifion and quietneis, but with every mark of the fincerelt joy and fatisfaction. Duriner lis ainence the inhabitants had beeu fuhected to the feverell forms of military execution; and forced to lubmit to the various evactions of a clief the mon needy, defperate, and rapacious, of all the leaders of the predatory bemds of his countrymen. When, therefore, they again beheld their lawful fovereign, they greeted his return by falutes from all the forts in his kingdom, and tellifed :heir joy, by illumiraticus on the tops and acclivities of the hills thronghout the whole vicinity of l'oomah.

Thus far ethe meafures of the governor of India wore an afpect of confifency and vigour, which augured well in favour of their ultimate fuccefs. The juftice of his interference at this time, to check the overgrown power of an alpiring adverfary, and to !uccour the ditlrel's of a fallen prince, will hardly be queftioned by fuch as are verfant in the politics of India: Nor will it be denico, fince all the Mahratta princes cxercifed the right of making treaties themfelves, that the fame privilege belonged to the head of the empire.

According to thefe views, the defenfive treaty of Batein was ikt only avowed by the parties, but freely communicated to the reft of the chiefs, who explicitly declared, that it contained no fipulations injurious either to the principles of their conftitution, or to the juft rights of any member of the Mahratta confederacy. On the other hand, its advantages were fufficiently ob. vious. It had the immediate effect of reftoring a depo. fed prince $t$ t) his throne, and to the exercife of his acknowledged rights, as well as of checking a dangerous ufurpation. It detached frum the influence of French councils a very important braich of the Mahratta con!ederacy, and therefore coincided with the general tendency and firit of the Britift policy in the eaft.

But the power of the Pelhwa, and the predominant rights which, by the conftitution of the empire, were attached to his olice, had, as nas already noticed, berome a grand object of ambition among the more confiderable chiefs. Scindiah had for many years laboured to gain an afcendency at the court of Poonah, and on fome occafions actually poftelted a powerful iniluence on its councils. Ragojee Ronnla had, from family connection, fome grounds tor the advancensent of his own claims to this ofice; whle Holkar had lately, by the fortune of war, had the whole authority placed within his grafp, and in the name of Amrut Rao, brother to the Pefhrva, had actually begun to exercife its different prerogatives.

The final deprivation of thefe chiefs, of fo fair an ohjef of ambition as the general controul of the whole Mahratta empire, feemed to reproach their indolence and want of ambition; and the nearer they confidered its attamment, the ftronger the iealoufy and difappointment which its lofs occafioned. The deep refentment thus excited among thefe chiefs, though unac. knowledged by themfelves, was the true caufe of that open holtility which they were now about to commence againt the Britifh power. Thus impelled by the ftrong emotions of difappointed ambition, Scindiah and the rajah of Nagpore entered into a clofe engagement to fruflrate the arrangements lately !ipulated by the ireaty of Baffein. In order to execute this puroofe,
each chief fet on foot a large army, which was marched from difterent quarters to a point of union, borderin'T on the territories of the Nizam, an ally of the India company.

This menacing pofition they maintained for a confi3trable time, in order to complete their orna preparations, and the more effechually to a:ge Holkar to iuin their eonfederacy; nor could they be perfuaded to abando it by the ftrongef semontrances of our government againf military oreparations fo unncceffery for their own defence, and in a fituation fo incompatible: with the peace and lafery of the Brition allics. However vawilling the marguis of Wrellefly might be to bazard the tramuillity and lafety of the Britith empire in the ealt by entering into a contell with thefe powerful chiefs, whole domisions actually Ilretched over more than one-half of the peminfula of India, he had honever no alternative left bim. The full and poistive information which he had from various fources obtained, of the nature and extent of the hofilities that hast for fome time paft been meditated, was now conirmed by the menaces of the enemy, and the actual preparations that he had made to carry them into execution. He forefaw the dangerous crifis which was now fo near at inand; and the hollow profetion of friendthips which were conftantly lent in reply to his remontrances, did not for a moment prevent hiun from bringing forward the whole refources of his government to defeat their enterprifes.

A combination of the Mahratta empire, fo extensive Armies fent and powerful as that now formed by the confederates, a airm had never hitherto leen brought into action againlt the Britifh power ; and it muft be acknowledged alfo, that a fyftem of defence, equally prompt, vigorous, and comprehenfive, was meser ulamed by any former governor of Britilh India. Five diferent armies, each of confiderable force, were §peedily prepared, brought into the field, and ready to invade the valt territory of the enemy, nearly at the fame period of time. The value of the previous arrangements that had been formed with the Nizans and the Pefhwa, particularly the fubfidiary treaties, was no $=$ diftinctly filt. By them the Britifh army was enabled to proceed through the friendly territories of allied chiefs, to the very boundary of the Mahratta dominions, where it was joi:sed by a large fubfidiary force both from Hyderabad and Poonah, which naterially promoted the fuccefs of the campaign. The marquis thus rvas enabled to attack the extenfive dominions of the enemy, from almolt cvery affailable paint, by an effort almoit fimultancous.

On the fouth they were invaded by a powerful divifion of the Madrafs army under Sir Arther Wellelly; in Guzerat, on the weft, hy Colonel Murray, and a Atrong detachment of the Bombay troops; a limilar effort was alfo made by General Lake on the northern extremity of Scindiah's dominions, where the main ftrength of his army was fationed in conjundtion with the celebrated brigade of General Perron. On the ealt, in Bundelcund, the fame fyltem of attack was purfued, where the adherents of the confederacy Ali Mohammed and Himmut Izahaudur were overpowered and difperfed. During the execution of all thefe onerations, the provinces of Balafore and Cuttack were wrefted from the rajah of Nagpore, by the immediate dircetion and under the aufpices of the srovernor-gene-

Indix. ral himfelf who had planued and combinced all thefe aflaults with a degree of judgmenst and accuracy which fccured their uniform fuccefs, and which has proved as creditable to his own talents as the prompt execution of his plans has been honourable to our Indian armies. Bht the circimilance which appears molt fignally to have promoted the fuccefs of this eventful campaign, was the ample and unreftricted authority which was conferred un the dififcrent commanders carrying on their operations in far removed from the feat of government. It was thus the fe officers were enabled to meet every new exigency by the unreftrained application of all their refources, and to furmount or evade unforefeen dificulties, as they happened to arife, by the immediate exercile of difcretionary power. 'The unexanspled rapidity of our victories, and valt extent of the conquefts that were made in the thort fpace of a few months, mult be in fome meafure allo afcribed to that juft tribute of commendation which was to impartially and liberally beltowed on the officers and troops atter their hard-fought battles. This approbation, equally merited and ufeful, infpired the army with a juft confidence in its own !frength, and preferved among the troops unsommon alacrity amidft their fatigues and danger.

The ftrong partiality which the marquis of WellesIy mult hate naturally felt for the brilliant fervices of his brother, on no occafion prevented him from difcerning the merits of other officers, and from conferring on them their jut thare of applaule. Immediately after the battle of Delhi, he expreffes his fenfe of the fervices of General Lake and his army in the following fipitited and patriotic terms in his general orders to the troops. He obferves, that " on reviewing the rapid fuccelles obtained by our arms within the fhort fpace of a few months, every loyal fubject of the Britilh empire mult be animated with the moft zealous emotions of jult pride and national triumph. I have already expreffed the fentiments of gratitude and admiration with which I contemplated the conduct of his excellency the commander in chief, and his army, in the action of the 2gth of Auguft, and in the gallant affault of the fortrels of Ally Ghur on the $4^{\text {th }}$ of September. The decifive victory gained on the IIth, in the battle of Delhi, juntifies the firm confidence I repofed in the bravery, perleverance and difcipline of the army, and in the lkill, judgment, and invincible intrepidity of their illultrious cominander. The glory of that day is not furpaffed, by any recorded triumph of the Britilh arms in India; and is attended by every circumftance calcubated to elevate the fame of Britioh valour, to illuftrate the character of Britifh humanity, and to fecure the ftability of the Britilh empire in the eaft."

The bravery of Sir A. Wellefly and his army, their atchievements in the memorable battles of Affye and Argaum in the Deccan, were not lefs confpicuous; nor were the general merits of this officer lefs worthy of thofe liberal and manly encomiums which he received from the marquis. Both commanders enjoyed the approbation of their fovereign, and received from him thofe honours which are the reward of valour. Fortunately too for the interefts of the Britifn empire, affailed at this period by the molt inveterate of all its eneInies, the folid advantages refulting from thofe well contefted battles were not inferior to the fplendour of :leir atchievement.

Their immediate confequences were the defeat of the combined armies of the confederate chiefs; and, from the lofs of their artillery, an irreparable blow to their ftrength and refources throushout the whole of Their britthe Deccan. Thefe profpero's refults werc, no doubt, ceifes. aided and accelerated by the aufpicious progrefs of the the army at all the different points from which it invaded the Mahratta empire. Soon after thefe fuccefles, the French officers attacled to Scindiah's army, after having quarrelled with the native firdars and with each other, abandoned the fervice of that chief: after the example of Pẹron their principal partizan, they fubmitted to the protection of the Britilh commander, who fuffered thens to retire with whatever property they had acquired, and had been able to bring away.

Thus the grand fabric of French power which that nation had been anxioufly raifing up, with the affumed fanction of the imperial authority, and the more effcient fupport of the Mahratta power, was at laft broken down, and completely deftroyed throughout the whole of India. The conquelt of Balafore and Cuttack by Colonel Harcourt feemed well calculated to prevent its future renovation ; for it connected the two prefidencies of Bengal and Madrafs, and united the Britils territories along the whole extent of the Coromandel coaft, where they now prefent an unbroken and hoitile frontier againit every inroad from the fhore, and form a barrier againft the introduction of Frencla fupplies, and officers to difcipline the armies of every inimical power.

The ftrong detachment of the Bombay army under Colonel Murray, though engaged in enterprifes apparently lefs fplendid, were equally ferviceable in promoting the important refults of the campaign. This officer not only defended the coaft and Britift territory in that quarter, and thofe of our ally the Guickar rajah; bur he alfo reduced the fortrefies of Broach, Powanghur, and other pofts of importance. 'Thus, in every quarter of this extended warfare, was the Britifh caufe triumphant ; - on the fhores of Guzerat and Balalore, on the mountains of the Deccan, and in the plains of Delhi, her banners were fupported with equal energy and fpirit; and victory everywhere continued Iteadily to follow them.

In the fpace of a few months, a rapid fuccefion of events had taken place, of fufficient importance to change completely the relative condition of the Britils empire, and the different powers of India. Its power was enlarged; and its afcendency among the neighbouring flates was without controul. Seven hundred pieces of cannon had been taken from the enemy; their armies routed and difperfed. Eight fortreffes liad been reduced, either by fiege or by efcalade. The mighty ftrength of the French and Mahratta confederacy had been fuddenly cruflhed throughout a territory extending over 1000 miles fquare. What feemed, however, of no lefs imporiance, in thefe warlike times, and in the critical fituation of the Britifh empire, then attacked and threatened with invafion, by its mof powerful and inveterate enemy in Enrope; her military reputation was heightened; the laurels the had lately gathered in Syria and Egypt were refreflhed ; and the enjoyed a fatisfactory prowf, that amidft increafing luxury and imminent danger, no portion of the enterprife and. valumr of her armies had been loff. Nor is it to be for-

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Indi. gotten that all her late victories in the caft, had been obtained over troops, not in the ordinary circumfances of Indian armies. They had been difciplined by European oficers, and led with intrepidity and hill. The proficiency they had made in European tactics was fo great, that during the action at Affye, the Mahrattas made no lefs than five different changes of pofition, and fuftained on the fame day an equal number of aflanlts, before they yielded the conteft. It was by the point of the bayonet alone, that they were at laft compelled to relinquifh their guns; 100 of which were taken on the feld of battle, by an army fcarcely anounting to a ten:h-part of the number of that which they had, with fuch fingular bravery, driven from the field.

The Mahratta confederacy being finally fubdued, a peace was concluded between the India Company, Dowlut Rao Scindialh, and the Berar rajah, in January 1804. The fhort period of tranquillity that fucceeded this event, was fpeedily interrupted by Holkar, another powerful chief, whofe expulfion of the Peflwa had originally occafoned the war. This prince, though he kept aloof from the confcderacy of his countrymen, with an indifference which fecmed to argue at once a deficiency of patriotifm and a want of fcund policy, was, neverthelefs, found to maintain the conteft for lis independence with far greater flill! and bravery than any prince whom the Britifh arms had oppofed in India.

The power and refources of Holkar had gradually been increafed, like that of the other chiefs, by the introduction of European officers into his army, and by an improved fyltem of difcipline which was thus eftablithed. Thus formidabie itfelf, his power was rendered almof unafiailable, from the nature of his country, which is uncommonly mountainous, and, during the rains, impaTable from jungles and morafles. His fikill in maintaining the predatory warfare, fo congenial to a Mahratta army, was far fuperior to that of the other chiefs; whofe experience bad fo fully tanght him the darger of rifking any regula: engagement with European troops. Thus, although his territories were invaded on all fides by detachmen:s of the company's forces, he conftantly eluded their attacks; and by the fingular sapidity of his movements, he was enabled fuddenly to aflemble almof his whole force, and overpower whatever detachments be might find at a ditance from fupport. In this fituation, the troops under Colonel Monfon were furprifed. This officer liad marched againft his capital Indoor, in concert with Coloncl Murray, who had reached the place from Bombav, and captured it without much oppolition. His le's fortunate coadjutor, however, after being betrayed by his guides, and deferted by a part of his troops, was attacked by a fuperior force, under Holkar himielf, before which he was forced to retreat towards Agra, through a country impaffable from the rains, and deftitute of provifions. After feveral difaftrous conficts, during a retreat of feven weeks, which degenerated into a flight, the greater part of his guns, and the whoie of the baggage and military flores, were lof. A few orly of the troops reached Agra at midnigh:, in a flate of extreme diftrefs; the greater past had been overtaken in their fight, and were either maflaceed, or cruelly mutilated, by thoir ferocious purfuers.

Colonel Willot of the Bengal artillery was almon
equally unfucceffful in an attack which he had planned againit a ftrong poft in the interior: he failed in the attempt ; and loon after died of the wounds he had rcceived. It was in Bundelcund, and the country of the Rohillas, that Holkar received the moft contiderable checks, which produced a reverfe of fortune. From both thofe territories he was completely driwen by Lieu-tenant-colonel Fawcet and General Smith.

Parties of his cavalry had been repeatedly defeated by Lord Lake: but the rapidity of their movements as often faved them from deftruction; and it was not till the decifive battle of Deeg, on the $3^{\text {th }}$ of November, that the main flrength of this enterprifing chief was completely broken. At this place, his army, trufting to the great ftrength of its polition, behind fuccelfive ranges of batteries, was induced to hazard a general action. From thefe different batteries, which extended to the depth of two miles, they were fucceffively driven by the gallant General Frazer, who had the credit of forcing a polt which had been deemed impregnable; and which at this period was defended by 24 battalions of infantry, and 150 pieces of cannon.

In this brilliant atchievement the general was wounded in the leg, and foon after was obliged to be carried off the field. The completion of the victory thus fell to Colonel Monfon, who now faw complete vengeance inlieted for his paft difarters, and for the unexampled cruelty of his enemy; 2000 of whom were killed, either in the batile or during the retreat. An immenfe number was wounded, and among thofe many coufiderable chiefs; while 87 pieces of cannon fell into his hands, which partly conilited of the fame guns which he had himfelf loit during his difattrous retreat to Agra.

Had Holkar confided merely to his effective force in the field, his caufe might have now been regarded as defperate. His boldnefs, however, and his unexampled fuccefs, had gained him the fupport of feveral of the native princes. Among thefe he had feduced the rajah of Bhurtpore, an ally of the Britih, and the chief of the celebrated caft of the Jauts, the mon warlike tribe in upper India. General Lake was therefore obliged to concentrate his army, and to employ it in the reduc. tion of Bhurtpore, a fortefs which experience has proved to have been the ftrongent and mot impregnable in the whole peninfula. While thus empioyed, the difperfed troops of Holkar had time to rendezwous in diftant quarters; and were fuccefful in cutting off his fupplies of provifions, and in plundering the jurrounding diftricts, by that predatory mode of warfare, for which the Mahrattas have always been celebrated.

The reduction of Bhurtpore, thus defended by the indefatigable efforts of Holkar, by its intrepid garrifon, and its own natural ftrength, proved the moft arduous enterprife which the Britilh troops had ever undertaken in Alia. The fuccels of the befieged in repelling four different affaults, animated them with frefa courage and intrepidity. The rajah and his whole tribe were united by the ties of blood, as weil as of civil aithority. They had claim to a high cofl among the hatives, which they kiew mult be forfeited forever by unconditional fubmition: Unfertunately thefe were the only terms which General Lake, in the peremptory infacttions which were given for its reduction, was permitted to accent. The rajah, therefore, baving collected in

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ฉะ:ㄱ․ tre fout his romen, his children, and his treafures, refolied to bury tiem al! with himelf under its ruinc, rather than furmit to terms which were deemed as diforaceful to is religion and his rank, as they were mortilying to lis fecliness as a foldier.

Compelled by the orders of his fupenior, and umdaunted by all the patt difaters w! ich the troop, !a:1 already fufferd, General Lake refo'ved to hazard amother attempt. In the account given of it in his difatch to the gremor-general, dated 22d Februry, he obterres, that "it apneared our failure on the 2 oth was to be accounted for, in a great meafure, by the necurrence of umexpested accidents and delars, as gart of the corps who formed the forming party liad furmounted the principal diffoulty, and has near!y gained the fun:mit of the baltion; where, 1 was informed, a few hours more batterir.g would make the afcent perfectly ealy, I determined to nake another attemnt vefterday.
"The party for this fervice confine 3 of the whole Juronean force, and the two battalions of ti.e native infantry of the Bengal army; and the greater part of his majelfy's $55^{\text {th }}$ and 86 th regiments, the grenadier battalion, and the flank companies of the if battalion 3d resiment, from the Bombay divifion. The whole moved on to the attack about three o'clock in the afternoon, under the command of the honourable Brigadier Monfon. The troops, moll confident of fuccefs, commenced the attack, and perferered in it for a confiderable time, with the moft determined bravery ; but their utnoft exertions were not fufficient to enable them to gain the top of the breach. The baftion, which was the point of attack, was extremely feep; the refillance oppofed to them was vigorons, and as our men could only mount by fmal! parties at a time, the advantages were very great on the fide of the enemy. Difcharges of grape, logs of wood, and pots nilled with combuftible materials, immediately knocked down thofe who were afcending; and the whole party, after having engaged in an obfinate contef for two hours, and fuffering very fevere lofs, was obliged to relinquith the attempt, and to retire to our trenches." The lofs of the l3ritill army in this laft affault, and that of the 20th, amounted to $3=0$ killed, and 1504 wounded: its whale lofs during the different attacks, amounted to upwards of 3 e00 of the braveft of our troops; while the unconditiona! furrender of the place, though the ul. timate object of all thefe perilous attempts, was never attained.

The rajah, however, again propofed the terms he had formerly offered ; and confented to pay three lacks of rupees to the army, and the expences of the war. Hollages were given for the regular difcharge of thefe fums, at difiesent intalments. 'Thus the laft prince in India who refifted the Britifh arms, was found to have raade the moft glorious defence of his independence, and to have fecured for himfelf the mof honourable terms. Holkar himfelf, after living been often beatent, was at laft deferted by almoft the whole of his troops, and was obliged to efeape with a retinue fo icanty, as was haldly fufficient for the protection of his perfon. In this manner, an arduous campaign of is months was completed, after occafioning a greater lofs of blood and treafure than had, perhaps, ever been incurred by the fubiugation of any fingle chief. Nor did this daring and magnanimous prince deign to tender
fubmiftos, or to fue for peace, till the marquis of WYe?lealy had metumed to Europe; will he had 'held the downiall of all the leading neen of his nation : and till, Inditianen like amother Galgacus, he had fecured to homfelf the honour of being the laft prince who hid dared to up. huid the fandard of independence in his native country.

ILhs ended the conte at betreen the Britifh government and the Mahrata atates;-a commination of military chiefs who had liddenly emerged from obfourity and rofe to the higheft rank among the na:ive powes: Their growing intuence had invariably been hoilice both to the Mohammedan and Pritill power. Their vicinity was the ientile furce of intrigue, ftatagem, and war: By their downfal!, the India Comnany has obtained a full afcendency over the penintula; tire and fature experience will thew whether this new atithority thall better promote the peace and profpeity of that pio pulous country.

> InDla Compary, See Coripuñ:

Inda Rubber: See Cinciorious.
INUIAN゙, in a general lenle, denotes any thing kelonging to the Indies, Eat or Jeft.

INDICATION, in Physic: whatever lemes to direct the phylician how to act.

INDICATIVE, in Grammar, the fitit mood of manner of conjugating a verb, by which we fimply aftirm, dery, or aik fomething: as, amani, "they love;" nonk amant, " they do not love;" amant ise? "do they love :" See Gr immar.

INDICTION, in Chronology, a cycle of 15 years. See Cycle.

INDICTMENT, in Lav, one of the modes of profecuting an offender. See Prosecurron.

In Englift law, it is a written accufation of one o: more perfons of a crime or mifocmeanor, preferred to, and prelented upon oath by, a grand jury. To this end, the fheriff of every county is bound to return to Black fo. every feftion of the peace, and every commiffion of oyer Comment. and terminer, and of general gaol-delivery, twenty-four good and lawful men of the county, fome out of every hundred, to inquire, prefent, do, and execuse all thofe things, which or the part of our lord the king Thall then and there be commanded them. They ought to be frecholders; but to what amount is uncertain: which Seems to be cafus omiflus, and as proper to be fupplied by the legiflature as the qualifications of the petit jury; which were formerly equally vague and uncertain, but are now fettled by feveral acts of parlia. ment. However, they are ufually gentlemen of the beft figure in the county. As many as appear upon this pannel, arefworn upon the grand jury, to the amount of twelve at the leaft, and not more than twentythrec ; that twelve may be a majority. Which num. ber, as well as the conflitution itfelf, we find exactly defcribed fo ca ly as the laws of King Ethelred: Wilk, \&LL, Eveant feniores duodicim thani, et prafcclus cum cis, ut Ann. Leto.

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adictnent.jurent fuper fan:7uarium quod eis in manus datur, quad nalint ullum innoccutum accufare, nec aliquent noxium celar:. In the time of King Richard I. (according to Hoveden), the procels of electing the grand jury, ordained by that prince, was as follows: Iour knights were to be taken from the county at large, who chole two more out of every hundred; which two afiociated to themielses ten other princinal freemen, and thole twe?re were to anfwer conceming all particulars relatings to their own diftict. 'This number was probably found too large and inconvenient; but the traces of this inltitution fill remain, in that fome of the jury muft be fummoned out of every hundred. This grand jury are previoufty inftucted in the articles of their inquiry, by a charge from the judge who prefides upon the bench. They then withdiaw to fit and receive indictments, which are preferred to them in the name of the king, but at the fuit of any prisate profecutor; and they are only to hear evidence on behalf of the profecution : for the findiug of an indictment is only in the nature of an inquiry or acculation, which is afterwards to be tried and determined; and the grand jury are only to inquire upon their oaths, whether there be fulfient caule to call upon the party to anfwer it. A grand jury', however, ought to be thoroughly perfuaded of the truth of an indiciment, fo far as their evidence goes; and not to reft latisfied merely with remote prubabili. ties: a docurine that night be applied to very oppreffive purpoles.

The grand jury are firom to inquire only for the body of the county, pro corpore comilatiss; and therefore they cannot regularly inquire of a fact done out of that county for which they are fworn, unlefs particularly enabled by act of parliament. And to fo high a nicety was this matter anciently carried, that where a man was wounded in one county, and died in another, the offender was at common law indictable in neither, becaufe no complete act of felony was done in any one of them : but by flatuie ad and 3 E Edw. VI. c. $2+$. he is now indictable in the county where the party died. And, by ftatu:e 2 Geo. Il. c. 2 t. if the froke or poironing be in England, and the death upon the fea or out of EngJand, of sice aer $a$, the ofienders, and their acceforics, may be indicted in the county where either the death, poifoning, or firoke, fhall happen. And fo in fome ciner cafes; as particularly, where treafon is committtd out of the realm, it may be inquired of in any county within the realm, as the king shall direct, in purfuance of Etatutes 26 Hen. VIII.c. 3 . 33 - ; Hen. VJII. c. 23.35. Hen. VIII. c. 2. 5. 6.; Edw. VI. c. II. And counterfeiters, wafhers, or minilhers, of the current coin, together with all manner of felons and their acceffories, may, by flatute 26 Hen. VIlI. c. 6. (confrmed and explained by 34 and 35 Hen. VIII. c. 26. §75: 70.) be indiAed and tried for thele offences, $i_{i}$ committed in any part of Wrales, befure the jufices of gaol-delivery and of the peace, in the nevt ad. joining county of England, where the king's writ run:eth: that is, at prefent in the county of Hereford or Silop; and not, as it thould feem, in the county of Chafer cr Nonmouth: the orie being a county palaine shere the king's sirit did not run; and the other * part of Wales, in a 6 Hcn. V1IJ. AIurders allo, whether commiteed in England or in foreign parts, may, by virtue of the Ristute 33 Hen . VIII. c. 23 . be inqui-
red of and tried by the king's fpecial commilion i:n any Ennuctmentthire or place in the kingdom. By fatute 10 and 11 WT. III. c. 25 . all robberies, and other capital crimes, committed in Newfoundland, may be inquired of and tried in asty county in England. Offences againtt tlie black act, 9 Gco. I. c. 22. may be inquired of snd tried in any county of England, at the option of the profecutor. So felonies, in deftroying tumpikes, ors works upon navigable rivers, crected by authority of parliament, may, by itatutes 8 Geo. II. c. 20. and 13 G:o. III. c. 84. be inquired of and tried in any adjacent county. Dy fatute 26 Geo. II. c. 19 plundering or flealing from any vefiel in difirefs or wreched, or breaking any filp conirary to 12 Ann. Atatuie 2. c. I 8. may be profecuted cither in the county where the fact is committed, or in any county next adjoining ; and if committed in Wales, then in the next adjoining Englifh county : by which is underftood to be meant, fuch Englith county as, by the tatute 26 Iten. VIII. abore mentioned, bail before a concurrent jurifdiction of felo. nies committed in Wales. Felonies committed out of the realm, in burning or deftroying the king's thips, magazines, or ftores, may, by tatute 12 Geo. III.c. 2 f. be inquired of and tried in any county of England, or in the place whace the offence is committed. By llatute 13 Geo. III. s. 63. middemeanors committed in india may be tried upon intormation or indistment in the court of king's-bench in England; and a mode is mark ed out for cxamining vitnetles by commilion, and tranfmitting their depofitions to the court. Put, in general, all offences muf be inquired into, as well as iried, in the county where the fact is committed. Yet if larceny be committed in one county, and the goods carried into another, the offender may be indicted in either; for the offence is complete in both. Or he may be indicted in England for larceny in Scotland, and carrying the goods with him into England, or sice verfa; oi for receiving in one part of the united kingion soods that have been ftolen in another. But for robbery, burglary, and the like, he can only be indicted where the fact was actually committed : for though the rerying away and keeping of the goods is a continuation of the uriginal taking, and is therefore larceny in the fecond county, yet it is not a robbery or burglary in that jurif. diction. And if a perton be indicted in one county for larceny of goods originally taken in another, and be thereof convicted, or ltands mute, he thall not be admitted to his clergy; provided the original taking be attended with fuch circumfances as would have oulled him of his clergy by vistue of any fatute made previous to the year 1691.

When the grand jury have heard the evilence, if they think it a groundlefs acculation, they ufed formerIy to enderle on the back of the bill, Isnoramus; or, We know nothing of it : intimating, tha: thougly the facts might poffibly be true, that truth did not appear to tliem. But now they aftert in Englinh inore abfolutely, Not a true bill; or (which is the better way) Not found; and then the party is difcharged without farther anfwer. But a freft bill may afterwards be preferred to a fublequent grand jury. If they are fatisfied of the truth of the acculation, they then indorfe upor it, "A irue bill;" :meicntly, Billa vera. The indiclment is then faid to be found, and the party fands indicted. But to find a bill, there muft at leait

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istamentwelve of the jury agre: fur fo tenoe: is the law of England of the lives of the fubjects, that no man can be convieted at the fuit of the king of any capital offence, unlefs by the unanimous voice of twentyfour of his equals and neighbours; that ic, by twelve at leatt of the grand jury, in the frit place, affenting to the accufation; and afterwards by the whole petit jury of twelve more, finding him guilty upon his trial. But if twelve of the grand jury affent, it is a good prefentment, though fome of the relt difagree. And the indictment, when fo found, is publicly delivered into court.

Indietments mult have a precife and fufficient certainty. By fatute 1 Hen. V. c. 5. all indietments mult fet forth the Chriftian name, furname, and aldition of the flate and degree, myftery, town, or place, and the county of the offender; and all this to identify his per.fors. The time and place are alfo to be alcertained, by naniing the day and tormhip in twhich the fact was committed : though a miftake in thefe points is in general not held to be material, provided the time be laid previous to the finding of the indictment, and the place to be within the jurildiation of the court; -unlefs where the place is laid, not merely as a venue, but as part of the defcription of the fact. But fometimes the time may be very material, where there is any limitation in point of time affigned for the profecution of offenders; as by the fatute 7 Will. Ill. c. 3. which enacts, that no profecution thall be had for any of the treafons or mifprifions therein mentioned (except an affaflination defigned or attempted on the perfon of the king), unlefs the bill of indictment be found withis three years after the offence committed : and, in cafe of murder, the time of the death muft be laid within a year and a day after the mortal flroke was given. The offence itfelf muft allo be fet forth with clearnefs and certainty; and in fume crimes particular words of art mult be ufed, which are fo appropriated by the law to exprefs the precife idea which it entertains of the offence, that tro other words, horreved fynonymous they may fcem, are capable of doing it. Thus, in treafon, the facts mult be laid to be done " treafonably, and againft his allegiance;" anciently, froditariè et contra ligenntice fuce debitums;" elfe the indiement is woid. In indiaments for murder, it is neceflary to fay that the party indicied " murdered," not "killed" or " flew," the other; which, till the late ftatute, was expreffied in Latin by the word murdravit. In all indictments for felonies, the adverb "feloniouny," felonice, muft be ufed; and for burgJaries alfo, burglariter, or, in Englifh, "burglarioufly:" and all thefe to afcertain the intent. In rapes, the word rapmit, or "ravifhed," is neceflary, and muft not be exprefled by any periphrafis, in order to render the crime certain. So in larcenies alfo, the words feIonicè cepit ct a/portavit," felonioufly took or carried away," are neceffary to every indictment; for thefe only can exprefs the very offence. Alfo, in indictments for murder, the length and depth of the wound fhould in general be exprefled, in order that it may appear to the court to have been of a mortal nature : but if it goes through the body, then its dimenfions are immaterial, for that is apparently fufficient to have been the caufe of the death. Alfo, where a limb, or the Like, is abfolutely cut off, there fuch defcription is need-
lefs. Lantiy, in indiftmente, the value of the thing Indicim which is the fubject or infrument of the offence mult fometimes be expreffed. In indictments for larcenies this is neceflary, that it may appear whether it be grand or petit larceny ; and whether entitled or not to the benefit of cleagy. In homicides of all forts it is necellary; as the weapon with which it is committed is forfeited to the king as a deodand. For the manner of procefs upon an indictment, fee Process.

Indictinemt, in Scots Law, the name of the fummons, or libel, upon which criminals are cited before the court of julliciary to fland trist. See Law Index.

Plea to Indictment. See Plea.
indies, Eaft and Weft. See India and Amea Rica.

INDIGENOUS, of indigena, denotes a native of a country, or that which was originally born or produced in the country where it is found. In this fenfe, particular fpecies of animals and plants are faid to be indigenous in the country where they are native, in oppofition to Exotic.

INDIGESTION, a crudity or want of due coction of the food in the ftomach. See Digestion.

INDIGETES, a name which the ancients gave to fome of their gods.

There are various opinions about the origin and fignification of this word. Some pretend it was give to all the gods in general ; and others, only to the demigods, or great men deified. Others fay, it was given to fuch gods as were originally of the country, or rather fuch as were the gods of the country that bore this name; and others again hold it was afrribed to fuch gods as were patrons and protectors. of particular cities. Lafly, others hold indigetes to be derived from inde genitus or in loco degens, or from inde and ago, for dcgo, "I live, I inhabit;" which laft opinion ieems the moit probable.

In effect it appears, 1 . That there indigetes were alfo called local gods (dii locnles), or topical gods, which is the fame thing. 2. The indigetes were ordinarily men deified, who indeed were in effect local gods, being efteemed the protectors of thofe places where they were deified; fo that the fecond and third opinions are very confiftent. 3. Virgil joins patrii with indigetes, as being the fane thing, Georg. i. ver. 498. "Dii patrii, isdigees.". 4. The gods to whom the Romans gave the name indigetes were, Faunus, Velta, Eneas, Romulus, all the gods of Jtaly; and at Athens, Minerva, fays Servius; and at Carthage, Dido. It is true, we meetwith Jupiter indiges : but that Jupiter indiges is Æneas, not the great Jupiter ; as we may fee in Livy, lib. i. cap. 3. in which laft fenfe Servius affures us, indiges comes from the Latin in diis ago, " 1 am among the gods."

Among thefe indigetss gods, there is none more celebrated, nor more extenfively worfhipped, than Hercules.

INDIGO, a dye prepared from the leaves and fmall branches of the Indigofera TimGoria. See the next article.

INDIGOFERA, the iNDIGO PIANT, a genus of plants belonging to the diadelphia clafs; and in the natural method ranking under the $32 d$ order, Papilionacea. See Botaiy Index.


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## 1 ND

This plant requires a froth rich foil, well tilled, and not too dry. The feed of it, which, as to frore and colour, refembles gunpowder, is Sown in little furrows that are about the breadth of the hoe, two or three inches deep, at a foot's diffance from each other, and in as ftraight a line as poffible. Continual attention is required to pluck up the weeds, which would foo chook the plant. Though it may be frown in all feafons, the firing is commonly preferred. Moifure causes this plant to hoot above the lurface in three or four days. It is ripe at the end of two months. When it begins to flower, it is cut with pruning-knives; and cut again at the end of every fix weeks, if the weather is a little rainy. It lats about two years, after which term it degenerates; it is then plucked up, and planted afresh. As this plant foon exhnuffs the foil, becaufe it does not absorb a fufficient quantity of air and dew to moiften the earth, it is of advantage to the planter to have a vat face which may remain covered with trees, till it becomes negeffary to fell them in order to make room for the indigo.

Indigo is diftinguified into two kinds, the true and the bafard. Though the firft is fold at a higher price on account of its fuperiority, it is ufually admantageous to cultivate the other, becaufe it is heavier. The frt will grow in many different foils; the fecond facceeds belt in thole which are molt exposed to the rain. Both are liable to great accidents. Sometimes the plant becomes dry, and is defrayed by an infect frequently found on it ; at other times, the leaves, which are the valuable part of the plant, are devoured in the face of 24 hours by caterpillars. This lat misfortune, which is but too common, has given occafion to the faying, "that the planters of invigo go to bed rich, and rife in the morning totally ruined."

This production ought to be gathered in with great precaution, for fear of making the farina that lies on the leaves, and is very valuable, fall off by thaking it. When gathered, it is thrown into the feeping-vat, which is a large tub filled with water. Here it undergoes a fermentation, which in 24 hours at furthest is complated. A cock is then turned, to let the water run into the Second tub, called the mortar or pounding tub. The fleeping-vat is then cleaned out, that fret plants may be thrown in; and thus the work is continued without interruption.

The water which has run into the pounding-tub is found impregnated with a very futile with, which alone conflitutes the dregs or blue fubftance that is the object of this process, and which rout be feparated from the ufelefs fall of the plant, becaufe this makes the dregs fwim on the furface. To effect this, the water is forcibly agitated with wooden buckets, that are full of holes and faxed to a long handle. This part of the procefs requires the grcateft precautions. If the agitation be difcontinued too fool, the part that is used in dyeing, not being fufficiently feparated frown the flt, would be loft. 1!, on the other hand, the dye were to he agitated too long after the complate feparation, the parts would be brought together amain, and form a news combination; and the fall reaQ ing on the dress would excite a fecond fermentasion, that would alter: the dye, foil its colour, and
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make what is called lump indigo. Theic accident a It digurera. are prevented by a clofe attention to the leaf alto- Individual. rations that the dye undergoes, and by the precaution which the workmen take to draw out a little of it from time to time in a clean velfcl. When they petreive that the coloured particles collect by feparating from the reft of the liquor, they leave off flaking the buckets, in order to allow tine to the blue dregs to precipitate to the bottom of the tub, where they are left to fettle till the water is quite clear.Holes made in the tub, at different heights, are then opened one after another, and this ufelefs watt: is let out.

The blue dregs remaining at the bottom having acquired the continence of a thick muddy liquid. cocks are then opened, which draw it of into the fetter. After it is fill more cleared of much fuperfluous water in this third and last tub, it is drained into facks; from whence, when water no longer alters through the cloth, this matter, now become of a thicker confillence, is put into chefs, where it entirely !offs its moifture. At the and of three months the indigo is fit for fate.

It is used, in walling, to give a bluifin colour to linen : painters aldo employ it in their water-colours; and dyers cannot make fine blue without indigo. The ancients procured it from the Earl Indies; in modern times, it has" been tranfplanted into America. The cultivation of it, fucceflively attempted at differrent places, appears to be fixed at Carolina, St Domango, and Mexico. That which is known under the name of Guatemala indigo, from whence it comes, is the molt perfect of all.

There are two kinds of indigo prepared in the Eft Indies, particularly on the coal of Coromandel, at Pondicherry, \&ic. Of thee the wort kind is unfed for giving the body of colour to the dyed fubflance, the other being employed only to give it a glofs afterwards. The fineft is prepared on the coat of Agra, Mafulipatam, and Ayanoo, but efpecially in the inland of Java; but this laft, being extremely dear, is very little unfed by the dyers. The belt ought to float on the furface of water; its colour ought to be a very dark blue inclining to violet, bright and forklinz, efpecially when broken. It may be tried by diffolving a little in a glass of water: if pure, it will mix equably with the liquor; but if otherwife, will feparate and fall to the bottom. Another method of trying the goodnefs of this fublance is by fire ; for the pure indigo will be entirely confumed, while the extraneous particles will remain. The pounded indigo is much more fubject to adulteration than fuck as is fold in cakes or tablets; as the afhes or dirt with which it is mixed are very apt to feparate from the pure colouring fulfance when finding in a liquid fate, as it mull always do before the moifture is evaprorated: whence, on breaking a bit of indigo fo adulterated, the extraneous matter will be perceived in ftrata of a different colour.

INIDIVIDUAL, a particular being of any fpecies, or that which cannot be divided into two or more beings equal or alike.

The ufual divifion in logic is made into genera, or into venules: thole genera into facies; and thole fire. cues into individuals.

Th INDIVISIBLE,

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inhwifite INDIVISIBLE, among metaphyficians.-A thing itsluli,en is fail to be abtolutely indiaifible that is a fimple be$\underbrace{\text { ces. }}$ ing, and confirts of no parts into which it may be divided. Thus, God is indiviftle in all refpects; as is
alfo the human mind; not having extenion, or other properties of body.

Isdivisibles, in Geometry, the elements or principles into which any body or figure may be ultimately refolved; which elements are fuppofed to be infinitely fmall: thus, a line may be faid to conlift of points, a furface of parallel lines, and a folid of parallel and fimilar furfaces.

INDORSEMENT, in Law, any thing written on the back of a deed; as a receipt for money received.

There is likewife an indorfement, by way of allignment, on bills of exchange and notes of hand ; which is done by writing a perfon's name on the back thereoi.
indostan, or Hindostas, Proper India, or the Empire of the Grcat Mogul. Sie Hindostan.

INDUCTION, in Logic and Rhetoric, a conlequence drawn from feveral propofitions or principles firit laid down. See Logic; and Oratory, No 32.

Induction, in Law, is putting a clerk or clergyman in pofieffion of a benefice or living to which he is collated or prefented. See the article Parson. Induction is performed by a mandate from the bilhop to the arcladeacon, who ufuaily iffues out a precept to other clergymen to perform it fui him. It is done by giving the clerk corporal poifelion of the church, as by holding the ring of the door, toling a bell, or the like; and is a form required by la's, with intent to give all the parilhioners due notice and fufficent certanty of their new miniter, to whom their tythes are to be paid. This therefore is the invelliture of the temporal part of the benefice, as inflitution is of the firitual. And when a clerk is thus prefented, iantituted, and inducted into a rectory, he is then, and not before, in full and complete polleition; and is called in law perfona imperfonata, or parfon imparfonnee.

INDULGENCES, in the Romifh church, are a remiffion of the punilhment due to fins, granted by the church, and fuppofed to fave the fimuer from pursatory.

According to the doarine of the Romilh church, all the good works of the faints over and above thofe which were neceffary towards their own juftification, are depofited, together with the infinite merits of Jefus Chrift, in one inexhauntible treafury. The keys of this were committed to St Peter, and to his fucceflors the popes, who may open it at pleafure, and by tranfferring a portion of this fuperabundant merit to any particular perfon, for a furn of money, may convey to him either the pardon of his own fins, or a releale for any one in whom he is interetted, from the pains of purgatory. Such indulgences were firf invented in the 1 th century, by Urban II. as a recompenfe for thofe who went in perfon upon the glorious enterprife of conquering the Holy Land. They were aftervards granted to thofe who hired a foldier for that purpofe; and in procefs of time were beflowed on fuch as gave money for acconplifhing any pious :rork enjoincd by the pope.

The power of granting indulgences $h_{1}$ s been qreat- Indulger ly abufed in the church of Rome. Pope Leo X. in order to carry on the magnificemt fructure of St Pe ter's at Rome, publifhed indulgences, and a plenary remifion, to all fuch as thould contribute money to. wards it. Finding the project take, he granted to Albert elector of Mentz, and archbilhop of Magdeburg, the benefit of the indulgences of Saxony and the neighbouring parts, and farmed out thofe of other countries to the higheft bidders; who, to make the beft of their bargain, procured the ablelt preachers to cry up the value of the ware. The form of thefe iadulgences was as follows: "May our Lord Jefus Chrill have mercy upon thee, and abfolve thee br the merits of his molt holy paffion. And I, by his authority, that of his bleffed apoifles Peter and I'aul, and of the molt holy Pope, granted and committed to me in thefe prots, do abfolve thee, firlt from all ecclefiaftical cenSures, in whatever mamer they have been incurred; then from all thy fins, tranfgrelions, and excefles, loow enormous foever they may be, even from fuch as arc referved for the cognizance of the holy fee, and as far as the keys of the holy church extend: I remit to you all punifimert which you deferve in purgatory on their account; and 1 reftore you to the ho! y facramerits of the church, to the unity of the faithful, and to that innocence and purity which you polfcifed at baptifm ; fo that when you die, the gates of puniflment thall be flut, and the gates of the paradife of dciight thall be opened: and if you fhall not die at prefent, this grace thall remain in full force when you are at the point of death. In the same of the Father, and of the Son, and of the ILaly Ghon."

The terms in which the reiailers of molulgences defcribed their benefits and the neceffity of purchating them, are fo extravagant, that they appear almont incredible. If any man (haid they) purchafes letters of indulgence, his foul may reft fecure with selpect to its falvation. The fouls confined in purgatory, for whofe redemption indulgences are purchated, as foo: as the money tinkles ia the cheft, intantly efcape from that place of torment, and afcend into heaven. That the eificacy of indulgences was fo great, that the moft heinous fins, even if one thould violate (wlich was impoffible) the mother of God, would be remitted and expiated by them, and the perfon be freed both from punifhment and guilt. That this was the unfpeakable gift of God, in order to reconcile men to himfelf. That the croos erected by the preachers of indulgences was equally efficacious with the c:ofs of Chrift itfel." "Lo! the heavens are open; if you enter not now, when will you enter? For twelve pence you may redeem the foul of your fother out of purgatory; and are you fo ungrateful, that you will not refcuc your parent from torment? If you had but one coat, you ought to Arip yourfelf inftantly, and fell it, in order to purcliafe fuch benefits," \&c.

It was this great abufe of indulgences that contributed not a little to the fi:lt reformation of religion in Germany, where Martin Luther began firf to declain againit the preachers of indulgences, and afterwards againit indulgences themfelves: but fince that time the popes have been more fparing in the exercife of this power: however, they fill carry on a great

## I N E [ 24.3$] \quad \mathrm{I}$ N F

chafed at two rials a-piece, and fometimes more.
The pope likewife grants indulgences to perfons at the point of death; that is, he grams them, by a brief, power to choofe what confellor they pleafe, who is authorifed thereby to abfolve them from all their Giss in general.

INIDULT, in the church of Rome, the power of preferting to bencfices granted to certain perfons by the pope. Of this kind is the indult of hings and fovereign princes in the Romilh communion, and that of the parliament of Paris granted by feveral popes. By the concordat for the abolition of the pragmatic fanction, made between Francis I. and Leo X. in 1516, the French king bas the power of nominating to billoprics, and other confiftorial benefices, within his realm. At the fame time, by a particular bull, the pope granted him the privilege of nominating to the churches of Brittany and Provence. In 1648 Pope Alexander VIII. and in 1668 Clement IX. granted the king an indult for the bithoprics of Metz, Toul, and Verdun, which had been yielded to hira by the treaty of Munfter; and in 1668 the fame Pope Clement IX. granted lim an indult for the benefices in the counties of Koufillon, Artois, and the Netherlands. The cardinals likewife have an indult granted them by agreement between Pope Paul IV. and the facred college in 1555 , which is always confirmed by the popes at the time of their election. By this treaty the cardinals have the free difpofal of all the benefices depending on them, and are empowered likewife to befow a benefice in commens'am.

INDULTO, a duty, tax, or cuftom, paid to the hing of Spain for all fuch commodities as are imported from the Weft Indies in the galleors.

1NDUS, a large river of Afia, which rifes in the mountains which feparate Tartary from India, and difcharges itfelf into the Indian ocean. See Hindustas and India.

INEBRIANTS, are defined to be fuch things as affect the nerves in a particular and agreeable manner, and through them al:er and difturb the functions of the mind. They are properly divided into native and artiricial ; the former chient in ufe among the oriental and other nations, the latter principally throughout Europe.
Natural Inebriarits, are, i. Opium; in ufe all over the ealt, and of which the Turks, through cuftom, frrallow a dractm. 2. Yeganum harmala, Syrian rue. The feeds are fold in Turkey for this purpofe; and with thefe, as Bellonius relates, the Turkih emperor Solyman kept himfelf intoxicated. 3. Mailac of the Turks, or bangue of the Perfians; prepared from the cuft of the male-flower of hermp, or from the leaves. 4. Bangue of the Indians, from the leaves of the hibifcus fabdariffa. 5. Seeds of various fpecies of the datura, or thornः apple. 6. Pinang, or betel of the Indians. 7. Roots of black henbane. S. The hyofcyamus phyfaloides. 9. Berries of the deadly nighthade. 10. Leaves of millfoil, are ufed by the Dalekarlians to render their beer intoxicating. 11. Tobacco, and feveral others lefs material are mentioned; fuch as clary, faffron, and darnel.
-Irsificial Inebriants, ase fermented liquors from fari-
naccous feeds; wines, and firits drawn by ditillation. With thefe is ranked the nectar of the gods, and the anodyne medicine of Homer, commonly called neperthes; and the fpells by which Miedea and Circe produced their inchantments.
iNERTIA of Natter, in Philofoply, is defined by Sir Ifaac Newton to be a pallive principle by which bodies perfift in their motion or relt, receive motion in proportion to the force imprefling it, and refif as much as thes are refifited. It is alfo defined by the fame author to be a power implatited in all natter, whereby it refifts any change endeavoured to be made in its flate. See Mechanics.

INESSE is applied to things which are actually exifting.

Authors make a difference between a thing in effe, and a thing in poffe: a thing that is not, but may be, they fay is in poffe, or potentia; but a thing apparent and vifible, they fay is in effe, that is, has a real being eo inf/anti; whereas the other is cafual, and at beft but a poffibility.

INFALISTACIO, an ancient punihment of felons, by throwing them among the rocks and fands, cuftomarily ufed in port-towns. It is the opinion of fome writers, that infalifhatus did imply fome capital punifhment, by expofing the malefactor upon the fand till the next tide carried him airay; of which cultom, it is faid, there is an old tradition. However, the penalty feems to take its name from the Norman falefe, or faleffa, which fignified not the fands, but the rocks and cliffs adjoining, or impending on the fea-horn. Commijut feloniann ob quann fuit fufpenfus, utlesa'us, sich alio modo morti demnatus, \&sc. تel apud Dozer infaliftatus, apul Southampton fubmerlius, \& c.

INFALLIBLE, fomething that cannot crr, or be deceived.

One of the great controverfies between the Proteflants and Papifts, is the infallibility which the latter attribute to the pope; though, in fact, they themfelves are not agreed on that head, fome placing this pretended infallibility in the pope and a general council.
INFAMY, in Law, is a term which extends to forgery, perjury, grofs cheats, \&ic. by which a perfon is rendered incapable of being a witnefs or juror, even though he is pardoned for his crimes.

INFANCY; the firt part of life.-Fred. Hoffman fays, that the human fpecies are infants until they begin to talk, and children to the age of puberty.- Anatomy difcovers to us, that during infancy there is much imperfection in the human frame; e. g. its parts are difproportioned, and its organs incapable of thofe functions which in future life they are defigned to perform. The head is larger in proportion to the bulk of the body than that of an adult. The liver and pancreas are much larger in proportion than in advanced life; their fecretions are more in quantity alfo. The bile is very inert; the heart is Atronger and larger than in future life ; the quantity of blood fent through the heart of an infant, in a given time, is alfo more in proportion than in adults. Though thefe circumfarices have their important ufefulnefs, yet the imperfection attending thern fubjects this age to many injuries and dangers from which a more perfeet fate is H h 2
exempted.

Inerti.t
II
Infancy.

Prare, exenipte!. Dr Percival obferves, in his Effays Med. and Exp that of all the cliidreas who are born alive, two thirds do nat live to be two years oid.

Infaits have a larger proportion of brain than adults, hence are molt fubject to nervous diforders; and hence the diagnotics of difeafes are in many refpects obfcure or uncertain, as particularly thofe taken from the pulfe, which, from the irritability of the tender bodies of in. fauts, is fuduenly affected by a variety of accidents too numerous, and feeming!y too trivial, to gain our attertion. However, no very great embarraifment ailies to the practitioner from hence: for the diforders is this fitate are generally acute, lefs complicated than tho'e in adults, and are more eafily difcovered than is generally anprehended.
infant, denotes a young child. See Infancr.
Infants, among the Jews, Greeks, and Romans, were fivaddled as foon as they were born, in a manner fimilar to that pradifed by the moderns. The Jews circumcied and named their infant children on the 8th day frons the bith. Upon the birth of a fon, the Grecians crowned their doors with olive-of a daughter, with wool. The infant was wahled in warm water, and anointed with oil-hy the Spartans with wine; it was then drefled, and laid in a bafket, or on a fhield if the father was a warrior, particularly amongtt the Spartans. At five days old they ran with it round the fire, and the mother's relations fent prefents. The Greeks named their children on the tenth day, the Romans on the ninth: The naming was attended with facrifices and cther demonftrations of joy. The maternal office of fuckling their own children was never declir.ed, when circumftances would permit. How much different is this from the umatural delicacy oblerved by modern mothers, a delicacy which to the child is cruelty! The 4 oth day was a day of folemnity for the mother. The names of children were regiftered both Ly the Greeks and Romans. See Register.

For an account of the cuftom of expofing infants, fee Exposimg.

Infants were kept from crying in the ftreets by mans of a fiporge foaked in honey. Nurles had allo their tugbears and terrible names to frighten the children into peace:--'The figure with which they were pincipally intimidated was Aogegoyvxiso, a furt of rawl.ead arid bloody bones.

Infant, in Law, is a perfon under 21 years of age; whofe caracities, incapacities, and privileges, are various.

1. In criminal matters. Tlie law of England does in forme cafes privilege an infant under the age of 21 , as to common miflemeanors; fo as to efcape fine, impriConment, and the like: and particularly in the cafes of omiffion, as not repairing a bridge, or a high way, and other fimilar offiences; for, not having the command of his fortune till the age of 21 , he wams
the ancient Saxon law, the age of twelve years was eftablifhed for the age of poffible difcretion, when firft the underfanding might open; and from thence till the oflender was 14, it was cetas pulertati proxima, in which he might, or might not, be guilty of a crime, according to his natural capacity or incapacity. This was the dubious flage of difcretion; but, under twelve, it was held, that be could not be guilty in will, neither after fourteen could he fuprofed innocent, of any capitai crime which he in fact committed. But by the law, as it now fands, and has flood at leaft cever fince the time of Edward III. the capacity of doing ill, or contracting guilt, is not fo much meafured by years and days, as by the ftrength of the delinquent's undertlanding and judgment. For one lad of 11 years" old may have as much cumning as another of 14 ; and in thefe cafes our maxim is, that malitio fupplet atatem. Ulider feven years of age, indeed, an infant camnot be guilty of felony; for then a felonious difcretion is almot an impoffibility in nature : but at eight years old, he may be guilty of feleny. Allo, under 14, theugh an infant thall be prima facie adjudged to be doli incapa,x, yet if it appear to the court and jury that he was doli capax, and could difcern between sood and evil. he may be convicted and fufier death. Thus a girl of 13 has been burnt for killing her miftefs: and one boy of ten, and another of nine years oll, who had killed their companions, have been fentenced to death, and he of ten years actually hanged; becaufe it appeared upon their trials, that the one hid himfelf, and the other hid the body he had killed; which hiding manifefted a conccioufnefs of guilt, and a dícretion to difcern between good and evil. And there was an inflance in the laft century, where a boy of eight years old was tried at Abington for firing two barns; and, it appearing that he had malice, revenge, and cunning, he was found guilty, condemned, and hanged accordingly. Thus alfo, in very modern times, a boy of ten years old was convifted on his own confeffion of murdering his bedfellow; there appearing in his whole behaviour plain tokens of a mifchievous difpofition; and, as the fparing this boy merely on account of his tender years might be of dangerous confequence to the public, by propagating a notion that children might commit fuch atrocious crimes with impunity, it was unanimoully agreed by all the judges, that he was a proper fubject of capital funifhment. But, in all fuch cafes, the evidence of that malice, which is to fupply age, ought to be ftrong and clear beyond all doubt and contradicion.
2. In civil matters. The ages of male and female are different for different purpofes. A male at $i 2$ years old may take the oath of allegiance; at 14 is at the years of difcretion, and therefore may confent or difagree to marriage, may choofe his guardian, and, if his difcretion be actually proved, may make bis tefament of his perfonal eflate; at 17 may be an executor; and at 21 is at his own difpofal, and may aliene his land, goods, and chattles. A fermale alfo at feven years of age may be betrothed or given in marriage ; at nine is entitled to dower: at 12 is at years of maturity, and therefore may confent or difagree to marriage, and, if proved to lave fufficient diferetion, may bequeath her perfonal eflate; at :4 is at years of lem. 1 difcretion, and may choofe a guardian; at 17 may be csecutrix; and at 2 I
in male or female is 21 years. which age is completed on the day preceding the anniserfary of a perfon's birth; who till that time is an infant, and fo fyled in law. Among the ancient Greeks and Romans, women were never of age, but fubjef to perpetual guardianthip, unlefs when married, nifi convenifent in manum sivi: and when that perpetual tutelage wore away in procefs of time, we find that, in females as well as males, full age was not till 25 years. Thus by the condtitution of different kingdoms, this period, which is merely arbitrary, and juris pofitivi, is fixed at different times. Scotland agrees with England in this point; (both probably copying from the old Saxon conflitutions on the continent, which extended the age of minority ad annum vigefumum primum, ct co uifque juevenes fub tutelam reponunt): but in Naples perfons are of full age at 18 ; in France, with regard to mar. riage, not till $3{ }^{\circ}$; and in Holland at 25 .

The very difabilities of infarts are privileges; in order to fecure them from hurting themfelves by their own improvident aets. In infant cannot be fued but under the protection, and joining the name, of his guardian ; for he is to defend him againt all attacks as well by law as othervife : but he may fue either by his guardian, or prochein amy, his next friend who is not his guardian. This prochein amy may be any perfon who will undertake the infant's caule; and it frequently happens, that an infant, by his prochein any, inttitutes a fuit in equity againft a fraudulent guardian.

With regard to ellates and civil property, an infant hath many privileges. In general, an infant thall lofe nothing by noneclaim, or seglect of demanding his right; nor thall any other laches or negligence be imputed to an infant, eacept in fome very particular cales.

It is gencrally true, that an infant can neither aliene his lands, nor do any legal act, nor make a deed, nor indeed any manner of contrast, that will bind him. But dill to all thefe rules there are fome exceptions: part of which were juf now mentioned in reckoning up the different capacities which they allume at different ages: and chere are others, a few of which it may not be improfer to recite, as a general fpecimen of the whole. And, firf, it is true, that infants cannot aliene their eftates; but infant truftees, or mortagees, are emabled to convey, under the direftion of the court of chancery or exchequer, or other courts of equity, the eftates they hold in truft or morsage, to fuch perfon as the court thall appoini. Aifo it is generaliy true, that ani infant can do no legal aft: yet an infant, who bas an advowfon, may prefent to the benefice when it becomes void. For the law in this cafe difpenfes with one rule, in order to maintain others of far greater confequence: it permits an infant to prefent a clerk (who, if unfit, may be rejected by the bithop), rather than either fuffer the church to be unferved till he come of age, or permit the infant to be debarred of his right by lapfe to the bihop. An infant may allo purchale lands, but his purchafe is incomplete; for, when he comes to age, he may cither agree or difagree to it, as he thinks prudent or proper, without alleging any realon; and fo may his heirs after him, if he dies without having completed his agreement. It is, far-
ther, genemally true, that an infunt, under 28 , can make no cleed but what is afternards roidable: yet in fome cafes he may tind himfelf apprentice loy deed indented or indentures, for feven years; and he may by deed or will appoint a guardian to his children, if he has any. Latly, it is generally true, that an infant can make no other contract that will bind him: yet he may bind himfelf to pay for bis neceflary meat, driak, apparel, phylie, and fuch other neceflaries; and likewile for bis good teaching and inftruction, whereby he may proft limfelf afterwards.

INFANTE, and INTANTA, all the fons and daughters of the kings of Spain and Portugal, except the eldett: the princes being called infantes, and the princefles infantas.

INF ANTRY, in military aftairs, the whole body of foot-foldiers, whether independent companies or regi-ments.- The word takes its origin from one of the infantas of Spai:, who, finding that the army commanded by the king her father had been defeated by the Noors, affembled a body of foot foldiers, and with them engaged and totally routed the enemy. In memory of this event, and to diftinguill the foot-foldiers, who were not before held in much confideration, they received the name of infontry.

Heavy-armed Infantir, among the ancients, were fuch as wore a complete luit of armour, and engaged with broad thields and long fpears. They were the flower and flrength of the Grecian armies, and had the higheft rank of militaty honcur.

Light-armed Infantikr, among the ancicnts, were defigned for fkirmithes, and for fighting at a diftance. Their weapons were arrows, darts, or flings.

Lighl liviantru, among the moderns, have only been in ufe fince the year 1656 . They have no camp equipage to carry, and their arms and accoutrements are much lighter than thofe of the infantry. Light infantry are the eyes of a gencral, and the givers of neep and fafety to an army. Wherever there is found light casalry, there hould be light infantry. They fhould be accuftomed to tl:e pace of four miles an hour, as their ufaal marching pace, and to be able to march at five miles an hour upon all particular occafions. Moft of the powers on the continent have light infantry. It is only of late years that light infantry came to be ufed in the Britith army: Fut now every regiment has a company of light infantry, whofe flation is on the left of the regiment, the right being occupied by the grenadicrs.

INFATUATE, to prepoffefs any one in favour of fome perfon or thing that does not deferve it, fo far as that he cannot cafily be difabufed. - The word infathate comes from the Latin faturus "fool;" of fari, "to Speak out," which is borrowed from the Greek $\varphi$ cas, whence Qarns, which fignifies the fame with cates in Latin, or prophet in Engling; and the reafon is, becaufe their prophets or priells ufed to be feized with a kind of madnefs or folly, when they began to make their predictions, or deliver oracles.

The Romans called thofe perfons infatuati, who fancied they had feen vifions, or imagived the god Faunus, whom they called Fatuus, laad appeared to them. This word is more generally applied by the moderns to perfons who are what the vulgas call bowitched, or under

Xnfetion fome pecuitar defting which it appears impofible for 11
1alibulaliun. them to hum.

NIECCIION, among phyficians. See Costa-
c.los:

INFEF CMENT, in Sco:s Lave, the folemnity of the delivery of an heritable fubject to the purchafer.

INFERIE, facrifices offered by the Romans to the Dii ilanes, or the fouls of deceated heroes or other iliuftious perfons, or even any selation or perfon whofe memory was held in veneration. Thefe facrifices confilled of honey, water, wine, milk, the blood of vic. iims, variety of balfamic unguents, chaplets, and loofe flowers. The vidims upon thefe uccations were generally of the fmaller cattle, though in ancient times they lacrificed flaves or captives: But what a fhocking view does this give us of their fentiments of human nature, as if nothing but murder, cruelty, and human blood, could fatisfy or prove acceptable to a human loul! The facrifices were ufually black and barren. The altars on which they were offered were holes dug in the ground.

The honcy, water, vine, \&xc. were ufed as lihations, and riere poured on the tombs of children by children, on thofe of virgins by virgins, and on thofe of married inen by women. The inferive were offered on the gth and 3 oth days after interment amongt the Greeks, and repeated in the month Authefterion. The whole of this article applies equally to the Greets and the Romans.

INFIBUI.A'TION, in antiquity. It was a cufoom among the Romans to infibulate their finging boys, in order to preferve their voices: for this operation, which prevented their retrating the prepuce over the glans, and is the very reverfe to circumacifion, kept them from injuring their roices by premature and prepofterous senery; ferving as a kind of padlock: if not to their inclinations, at leaft to their abslities. It appears by fome patiages in Martial, that a lefs decent ufe was made of infibulation among the luxurious Romans: for fome ladies of diftinction, it feems, took this method of confining their paramours to their own embraces. Jurenal alfo hints at fome fuch practice. Celfus, a chafte author, fays infibulation was fometimes practifed for the fake of health, and that nothing deitross it more than the filly practice this operation feems intended to prevent. This practice is not perhaps likely to be revived; if, however, any one who has fuffered in his conftitution by prepofterous renery, thould be able so get children, and thould be inclined to prevent the fame misfortone in them by infibulation, the method of doing it is thus: The thin which is above the glans is to be extended, and marked on both fides with ink, where it is perforated, and then fuffered to retract itfelf. If the marks recur upon the glans, too much of the okin has been taken up, and we mult make the marks farther; if the glans remain free from them, shey thow the proper place for affixing a fibula: then pals a needle and thread through the isin where the marks are, and tie the threads together; taking care to move it every day, until the parts about the perforations are cicatrifed; this being effefed, take out the thread, and gut in the tibula; which the lighter it is the better.

Authors have not determined what the fibula of the ancien: Surgeons wae, though no doubt it vias for dific.
rent purpoies. In the prefent cafe, the fibuia feems to mean a ring of metal, not unlike what the country people put through the nofes of fwine.

INFIDEL, a term applied to fuch perfons as are not baptized, and that do not belicve the truths of the Chritian religion. See Deist.

INFIDELITY', in a seneral fenfe, denctes want of faith or belief in regard to any fubject or tranfaction.

Rcligious Infidelity fignifies a dibbelief of Chriatianity.

Of all the methods (fays an elegant modern ef. fayill *) which the vanity of man has derifed with a * Kno. view to acquire distinction, there is none eafier than Effays, that of profefling a dibelief of the eftablimed religion. $\boldsymbol{N a}^{2} 10$. That which thocks the feelings of thofe with whom we converfe, cannot fail of attracting notice; and as the vain are ufually confident, they utter their doubts with an air fo oracular and decifive, as induces the fimple to think them profoundly wife. Audacity, with little ingenuity, will attract the cyes of fpectators, and this will fufficiently anfuer the purpofe of many among the profeffed anclievers. One might be diverted, if one "tere rot hurt, at feeing a circle of filly admirers, gaping ..nd fixing their eyes on fome half-learned and impudent prater, who throws ont oblique intinuations agaist the Bible, the clergy, or the facrament. Thefe are fertile topics of wit and ingenuity ; but it might mortify the vanity of fome very vain writers and talkers, if they were io recollect, what is undoutedly true, that it is a Species of wit and ingenuity which not only the vilef, but the moft fupid and illiterate of mankind, have frequently diflayed in all its pofible perfecion.

There is indecd no doubt, but that vanity is one of the principal caufes of infidelizy. It muft be the fole caufe of communicating it to others, by writing or converfation. For let us fuppofe the cafe of a very humane, judicious, and learned man, entertaining doubis of the truth of Chriftianity: if he cannot clear his doubts by examination, he will yet recollect that doubts are no certainties; and, before he endeavours to propagate his feepticifm, he will ath himfelf thefe queftions: "Am I quite convinced that what I doubt of cannot pollibly be tnee ? If I am convinced of it, am I fure that the publication of my opinions will not do more harm than good: Is not the difturbing of any long eftablifhed civil comlitution attended with confufron, rebellion, bloodihed, and ruin? And are not the majority of men more ftronyly attached to the religion than the government of their forcfathers? Will it ferve my country to introduce difcontent of any fpecies? May not thofe innovations in religion, which difontent many introduce, lead to all the evils which are caufed by frenzy and fanaticifin? Granting that I werc able to make a party formidable enough to crufin oppofition and to exterminate Chriltianity, Ifill am I certain that 1 ât in this inftance, like a good member of fociety? For is not this fyftem, whether well or ill founded, friendly to fociety? I mult confefs it ; its greateft enemies have acknowledged it. What motive then ean induce me to divulge my doubts of its authenticity? Not the good of mankind; for it is already allowed by unbelievers, that the good of mankind is interefted in the belief of its divine osiginal. Is is for

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lyelisy. my own good, and with a vie:v to $b$ e consinced? I will not deceive myfelf: my motive, I fulpect, is of another kind; for do I read thofe books which have been alieady writen to fitisfy limilar doubts? NVo thing but the vanity of apperring to be wi!er than my eredulous neiphbours can induce me io interrupt the happinefs of their belief. But vanity of this Cort, which tends to diturb fociety, to injure the national morals, and to rob many thoufand individuals of a coHous fource of fweet and folid comfort, mult be pronnunced extreme :rickedneff, even according to the obvicus dictates of natural religion. I thall act the part of a good eivizen and a good man, by coufnrming to a lyitem whole bemeficial intiucnee I feel and confefs, and by endeavouring to aequire a belief in that whieh has for fo many centuries been ettablihed, and which promifes to foothe me in difirefs with the fwectelt confolations, and in brighten the dilmal hour nf death, by the hore of a more giorious and happy It ite of exintence. At all events, 1 thall have the fatisfaction ot having commandal myfelf fo far, as not to have run the hazard of endangering the welfare of my fellow-reatures, either here or hereafter, by inCulging a degree of vanity, whict, in a creature to weak and fo thort-lived as myfelf, is a folly very inconfltent with the fuperior widdom which I Seem to arrogate.
"I will venture to repeat (continues our author), that all writers againft Chrifianity, however they may affect even the extremes of benevolence, honour, philnfophy, and eniargement of mind, are actuated by vanity and wickednefs of heart. Their motives are as mean, felfith, narrow, and in every refpect unjuilifable, as the tendency of their writings is mifchievous. Their malice is often impotent, through the foolith fophiltry of their arguments; but, if ever it be fuccelfful, it is highly injurious: and indeed, confidering their metives and the probable confequences of their endeavours, the infitel writer is a greater enemy to fociety, and confequently guiltier, according to all the principles of focial union, than the thief or the traitor. Perfecution would, however, only promote his caure, and his proper punihment is contempt.
"It is certainly no derogation from the eharacter of a man of fenfe, to conform, even while he is fo unfortu. nate as to doubt their truth, to the opinions of his country. His conformity will probably lead him to a train of astiors and of thought, which, in due time, will induce him to beliesc. But, if that fhould not tappen, yet he will act, as very wife and very sreat men have afted, in paying a relpectful deference to thie a:owed conviction of others. The mott intelligent and powerful men of ancient Rome, not only appeared to believe a very abfurd and hurtful fyftem, but affited in all its eeremonies as priefts. Esen Socrates, who evidently entcrtained fome notions adequate to the digrity of the one great and iupreme Being, yet thought it was a duty which he owed to his country, fo far to conform to the wretched effabliflment, as to order in this dying words a facrí:ce to Efculapius. This ex-- inal conformity to the national religion ought not to he confounded 1 ith hypocrify. If indeed it is carried th extremes, or ze:lourly affected, it certainly is very blameable and contemptible deceit; but while it keeps whim the beurds of reafois and mederation, it ought
to be called a decent deference to the oninsons of the Infilelier. majority, ariting from humility, and from a delire to mantain the tranquillity of the Rate, and to continae :in iunocent and wfeful fyitem, which has and will al. ways greatly contribute to leifen the quantity and degree both of moral and of nateral evil.
"The eafiett, afeer a!l, or at leait the mof effectual method of appearing in any character", is really to be what we with to appear. But belje? you will hay, is not in our power, and how care we believe what :mears to us incredible? Certainly you cannot while it ap. pears incredible. But let rae alk you, whether you have taken any pains to believe, or have at onec and at a glance perfualed yourfelf, that the Chritian religion is totally falie? It is probable that a great number of feeptical writers never gave themfelves the trouble to read thofe Scriptures which they warmly oppofe. 'They hear objections, they read ubjections, and they find, that from men of reputed wit and inge. nuity the objections often originate. They alfo wilh to be reputed men of wit and ingenuity, and therefore cagerly adopt the language and fentiments of the order. lerhaps the vanity and pride of this clafs of men will render all atiempts to conroince them abortive; but to modelt doubters, and to thofe whole good lenfe and good difpotitions lead them to wilh to adopt the religion of their cuintry, it may not be ufelels to luggett advice, with a view to facilitate their conrition.
"The rhief thing required is to free themfelves from the fride of human reaton. Humility (and furely our blinduefs and imperfections are luffecient to render us humble, if we wonld be reafonable), humility will open our hearts, and belief will find admilion." Sincere endeavours, feconded by prayers, will never fail to help our unbelief. But, alas! a fine, gay, fpirited, liberal, and enlarged modern philofopiner, would be athamed to be found on his knees, or with a Telłament in his poftelfon. There is fearcely any vicicus act, or any vicious book, which would fut him fo much to the blufl.
"A modeft well-meaning man might, however, one Goould think, divelt himfelf of thole prejudices which prevent the polfibility of belief, by the following foliloquy: "I find mylelf placed in a world abounding with evil and mifery. Under the immediate prollure of it, I feel my heart inclining, like the needle to the north, by its natural tendency, to the Deity for fupport. Man, of all animals, is the only one who $b$ ienfe of religion. Feeling this ditinctive prom of my nature, I look around to difcover to whas ject, and in what manner, that part of my flllow tures, who live in the f.me focicty with my ie!', their adoration. I find a fylem of religion ahic ettablithed, and which has been eftablithed in the in ealightened countries of the earth near 20 -o years. I refolve to examine ir. It claims that relpect ti :1 1 antiquity and univerfality. Many dillicu?ties n.....? on the firl infpection. My reaton is oten startice mov belief wavers. But I will not yet give up a firt of to ferious importance, without further and $c_{-}$. r attention to it. I reflect, that 2000 years is a suface in the age of the world. How many myricis of ren like mvele have lived and died in the aitl. -un. ring that time! And were all of them fon's or hy:

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Infinite crites? It could not lave been. Can the uiderflanding of a poor individual, jult come into the world, and hardly knowing where he is, comprehend on intuition an object of fuch magnitude, and make the mighty dilcovery which has efcaped millions of the wifeit and moft learned of mortals? Or, fuppoling that they all perceived the deception, am I then at latt the only honeft man who will confefs it? I am afhamed to avow fuch an idea to myfelf. But yet, if I reject what they received, furely I avow it in the more expreflive language of my conduct. Pride, I fear, is the foundation of my feepticifm; and humility mult forn the bafis of my belief. I will chock my own prefumption, and reject the cavils of vain and foolih philofophy. Shall a poor weak creature, who cometh up like a flower, and is cut down, who fleeth as a fladow, and never continuetlı in one flay, prefume to pronounce decifively in that little period, in which he has fearcely time to look about him before he dies, againtt a fyflem which has ftrong internal and external evidence of divine original, which is molt ufeful and comfortable, and which has been admitted among a great portion of mankind during almof 20 centuries? No, it is the firft wifdom to be humble. Humility will be followed by grace, and grace by faith, and faith by falvation. It plainly appears, that I can lofe nothing by belief, but fome of thofe exceffive and irregular enjoyments, which would deftroy my health and life; but I may poffibly gain a glory and a happinefs which thall continue to all eternity."

INFINITE, that which has neither beginning nor end : in which fenfe God alone is infinite.

Infinite is alfo ufed to fignify that which has had a beginning, but will have no end, as angels and human fouls. This makes what the fehoolmen call infinitum à parte pof; as, on the contray, by infinitum à parte ante, they mean that which has an end, but had no beginning.

Infinite Q!antitics. The very $^{\text {idea }}$ of magnitudes infinitely great, or fuch as exceed any affignable quantities, does include a negation of limits; yet if we nearly examine this notion, we fhall find that duch magnitudes are not cqual among themfelves, but that there are really, befides infinite length and infinite area, three foveral forts of infinite folidity, all of which are quantitates fui generis, and that thofe of each fpecies are in given proportions.

Infinite length, or a line infinitely long, is to be confidered either as beginning at a point, and foinfinitely extended one way, or elfe both ways from the fame point; in which cafe the one, which is a beginsing infinity, is the one half of the whole, which is the fum of the beginning and ceafing infinity; or, as may be faid, of infinity $\grave{i}$ parte ante and a parie poff, which is analogous to eternity in time and duration, in which there is always as much to 反ollow as is patt, from any point or moment of time; nor doth the addition or fubduction of finite length, or fpace of time, alter the cafe either in infinity or eternity, fince both the one or the other cannot he any part of the whole.

INFINITESIM $A L S$, among mathematicians, are - defined to be infinitely fmall quantities.

In the method of intinitefimals, the element, by which any quantity increafes or decreales, is fuppofed to be infmitely fmall; and is generally cxprefled by tiro or
more term.s, fome of which are infinitely lefs than the reft; which being neglected as of no importance, the remaining terms form what is called the difference of the propg/ed quantity. The terms that are neglected in this manner, as infinitely lefs than the other terms of the element, are the very fame which arife in confequence of the acceleration or retardation of the generating motion, during the infinitely imall time in which the element is generated : fo that the remaining terms exprefs the elements that would have been produced in that time, if the generating motion had continued uniform: therefore thofe differences are accurately in the fame ratio to each other as the generating motions or fluxions. And hence, though in this method infinitefimal parts of the elements are neglected, the conclufions are accurately true without even an infinitely fmall error, and agree precifely with thofe that are deduced by the method by tluxions. See Flux1oss.

INFINITIVE, in Grammar, the name of one of the moods, which ferve for the conjugating of verbs. See Grammar.

INFINITY, the quality which denominates a thing infinite. See Metapifysics.

INFIRMARY, a kind of hofpital, where the weak and fick are properly taken care of.

INFLAMMABILITY, that property of bodies which difpofes them to kindle or catch fire. See CheMISTRY, $\mathrm{N}^{\circ} 336$. p. 490.

INFLAMMATION, in Medicine and Surgery, a rednefs and fwelling of any part of the body, attended with heat, pain, \&ic. See Medicine Index.

Inflammation of Oils by concentratcd Acids. See Chemistry, $\mathrm{N}^{\circ} 876$ and 893.

INFLATION, formed from in and flatus; of $\mathcal{f o}$, "I blow;" blowing up, the act of Aretching or filling any flaccid or diftenfible body with a flatulent or windy fubftance.

INFLECTED rays. See Infected Rays.
INFLECTION, called alfo a diffraction, and deficction, in Optics, is a property of light, by reaton of which, when it comes within a certain diftance of any body, it will either be bent from it, or towards it; which is a kind of imperfect reflection or refraction. See Optics.

INFLECTION, or Point of Inflection, in the higher geometry, is a point where a curve begins to bend a contrary way.

Inflection, in Grammar, the variation of nouns and verbs, by deelenfion and conjugation.

INFLUENCE, a quality fuppofed to flow from the heavenly bodies, either with their light or heat; to which aftrologers idly afcribe all fublunary events.

Alchemilts alfo, who to this afcribe the philofophers ftone, tell us, that cevery thing in nature is produced by the influence of the flars, which, in thcir paffage through the atmofphere, imbibe many of its moift parts, the groffeft whereof they depofite in the fands and earths where they fall; that thefe, filtrating through the pores of the carth, defcend even to the centre, whence they are driven, by the contral fire, back again to the furface; and in their afcent, by a natural kind of fublimation, as they find earths duly, difpofed, they form natural bodies, as metals, minerals, and vegetables, \&ic. Thus, it is pretended, that chemi' ry,

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Infirn:a confifting of an artificial inntation of thefe matual ope-
ciples, can form natural bodies, make ge!d, \&c

INFORMATION, in Laze, is nearly the fame in the crown-office, as what in other courts is callud a declaration. See Prosecurion.

Informations are of two forts; firt, thofe which are partly at the fuit of the king, and partly at that of a fubject ; and fecondly, fuch as are only in the name of the king. The former are ufually breught upon peral fatutes, which indict a penalty upon convition of the offender, one part to the ufe of the king, and another to the ufe of the informer. By the tiatute 31 Eliz. c. 5. no profecution upon ar.y penal ftatute, the fuit and benefit whereof are limited in part to the king and in part to the profccutor, can be brought by any common informer after one year is expired lince the commifion of the offence; nor on behalf of the crown, after the lapfe of two years longer; nor, where the furfeiture is originally given only to the king, can fuch prolecution be had after the expiration of two years from the commiffion of the ofience.

The informations that are exhibited in the name of the king alone, are allo of two kinds: firt, thofe which are truly and properly his own fuits, and filed ex officio by his own immedjate officer, the attorneygeneral: fecondly, thofe in which, though the king is the nominal profecutor, vet it is at the relation of fome private perfon or common informer ; and they are filed by the king's coroner and attomey in the court of king's bench, ufually called the mafer of the crownofice, who is for this purpofe the ftanding othcer of the public. The objects of the king's own profecutions, filed ex officio by his own attorney-general, are properly fuch enormous mifdemeanors, as peculiarly tend to difturb or endanger his government, or to moleft or affront him in the regular difcharge of his royal functions. For offences fo high and dangerous, in the punißhing or preventing of which a moment's delay would be fatal, the law has given to the crown the power of an immediate profecution, without waiting for any previous application to any other tribunal: which porver, thus neceffary, not only to the eale and lafety, but even to the very exiftence, of the executive magitrate, was originally referved in the great plan of the Englith confitution, wherein provifion is wifely made fur the due prefervation of all its parts. The objects 0 the other fpecies of informations, filed by the matter of the crownoffice upon the complaint or relation of a private fubject, are any grofs and notorious mifdemeanors, riots, batteries, libels, and other immoralities of an atrocious kind, not peculiarly tending to dillurb the government (for thofe are left to the care of the attorneygeneral), but which, on account of their magnitude or pernicious example, deferve the moft rublic animadverfion. And when an information is filed, either thus, or by the attorney-genera! ex officio, it mult be tried by a petit jury of the county where the offence arifes: after which, if the defendant be found guilty, he muff refurt to thee court for his punithnsent. See a hiftory and vindication of this mode of profecution in the work cited on the margin, vol. iv. F. 309-312.

INFOR "ER (informolor) in Lawn, a ferfon that informs againt, or profecu:cs in any of the king's Vol. XI. Part I.
courts, thoie that ofiend againf any lave or penal fla- Infuction tutc. Sec Informintion.

Informers were very common both in Greece and Ingwiuns. Rome. Eicry curser of the flrects was peitered with fivarms of turbulent rafcals, who made it their conftant butinefs to wick up ftories and catch a: every occaforn to accufe perfons of credit and reputation : 'ihefe by the Greeks were called इuxopinfas; for a more particular account of whom, fee the article Sycopinsis.

Amongt the Romans, informers were of two forts, mandatores and dilatores. Thefe played into each other's hands; the former marking down fach perfons as they pretended to have found guilty of any middemeanor, and the other profecuting them. What tended to increafe the number of thefe peftilent fellows was, that the informers were entitled to a fourth part of the effects of the perfon convified. Wicked princes rewarded and countenanced this mifchievous tribe; but Titus fet on foot a molt diligent fearch after them, and punifhed fuch as he found with death or baniliment. 'Tr.jan alio is praifed by Pliny for a fimilar conduct.

INFRACTION (formed from in, and the fupine of frango, "I break,") a rupture or violation of a treaty, law, ordinance, or the like.

INFRALAPSARII, the name of a fect of prede. finarians, who maintain, that God has created a certain number of men only to be damned, without allowing them the means neceffary to fave themfetres, if they would; and they are thus called, becaufe they hold that God's decrees were formed infra lapfum, afer his knowledge of the fall, and in confequence thereof; in contradillinction to the Supralipsartans.

INFR A scapularis, in Anatomy. See Axatomy, Table of the Mufcles.

Infra Spinatius, in Anatomy. See Anstomy ibic.
INFULA, in antiquity, was a mitre worn by the Roman and Grecian prielts upon the head, from which on each fide hung a ribband. The covering the head with a mitre was rather a Roman than a Grecian cultom, introduced into Italy by Æneac, who covered his head and face at the performance of facrifice, left any ill-boding omen frould difurb the rites. The inful:e were commonly made of wool, and were not only worn by the priefts, but were put upon the horns of the vistims, upon the altar and the temple. The infule were alfo called vituce.

INFUNDIBULIFORM, in Botany, an appellation given to fuch monopetalous or one-leaved Howers as refemble a funnel in thape, or which have a narrow tube at one end, and gradually widen towards the limb or mouth.

INFUS!ON, in Plarmacy, an operation, whereby the virtues of plants are dra n out, by fleeping them in fome convenient Huid without boiling.

INGELSHEIM, a town of Germany, in the pale. t nate of the Rhine, remarkable for having been the retidence of the emperor; feated on the river Salsa, on an eminence, from whence there is a charning profect. E. Long. 8 5. N. Lat. 49. 58.

INGENUOUS, in a gencral fenfe, fignifics opon, fair, and candid.

I:cexuous (ingenuus), in Roman antiquitr, an appellation sixen to perfons born of fice pareats, who had neve: been flaves: for the cliildren of the liberfi,

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Irgeks of nerfons who had obtained their liberty, were callcd hthert:mi, not ingenui; this appellation of ingenuus being referved for their childen, or the third generatude. turle. tion.

INGESTA, is ufed by forme authors to exprefs all forts ot alimert taken into the body.

INGLCYIES, the crod or craw of granivorous birds, ferving for the imueniase reception of the food, where it is inacerated for fome tume before it is tranfmitted to the true f.amech.

1NGOLSTAD1, a handfome town of Germany, and the itiontelt in Ravaria, with a faneus univerfity and a handfome church. The houfes are buile with frore, and the fireets large. It is feated on the Danube, in E. Long. 11. 10. N. Lat. qS. $_{42}$.

INGOT, a mals of gold or filver melted dorm, and caft in a mould, bet not coined or wrought.
ingrafing, in Gardening. See Grafting, Gardexing Index.

INGRATI'TUDE, the oppofite of gratitude. See Gratitude.
Ingratitude is a crine fo flameful, that there never was a man found who would own himfelf guilty of it, and, though too fequently practifed, it is fo abhorred by the general voice, that to an ungrateful perfon is imputed the guilt or the capability of all other crimes.

The ungrateful are neither fit to ferve their Maker, th. ir country, nor their friends.
lngratitude perverts all the meafures of religion and fociety, by making it dangerous to be charitable and good natured. (See Gratitude). However, it is better to expofe ourfelves to ingratitude than to be wanting in charity and benevolence.
Great minds, like Heav'n, are pleas'd with doing good; Though the ungrateful fubjects of their favours Are barren in return.

1. In a little work intitled Friendily Cautions to Offcers, the following atrocious inflance of ingratitude is rclated. Au opulent city in the wefl of England, little ufed to have troops with them, had a regiment fent to be quartered there: the principal inhabitants and wealthieft merchants, glad to fhow their hofpitality and attachment to their fovereign, took the Erlt opportunity to get acquainted with the officers, inviting then to their houfes, and fhowing them every civility in their power. This was truly a defirable fituation. A merchant, extremely eafy in his circumttances, took fo prodigious a liking to one officer in particular, that be gave him an apartment in his own houfe, and made him in a manner abfolute mater of it, the officer"s friends beiug always welcome to his table. The merchant was a widower, and had only two favourite daughters; the officer in fo comfortable a fation caft his wanton eyes upon them; and too fatally fucceeding, ruined them both. Dreadful return to the merchant's mifplaced friendhip! The confequence of this ungenerous astion was, that all officers ever after were thumed as a public nuifance, as a peft to fociety: nor have the inhabitants perhaps yet conquered their averfion to a red coat.
2. We read in Rapin's Hiftory, that during Monmouth's rebellion, in the reign of James 1I. a certain ferfon knowing the humane difpofition of one Mrs

Gaunt, whofe life was one continued exercife of benc-
ficence, sitd to her houfe, where the was conceated and maiutand for jome uine. Hparing howered and proc amation, which promitiod an indemnity and rewalo to thofe who diccoitred fuch as harboured the renel, he tetrayed his benefadrefs; and fuch was the firit of juliice and equity which prevailed among the minifers, that he was pardoned and recompenfed for his treachery, while fie was burnt alive for her charity!
3. The following inftance is alio to be found in the fame hiftory.-Humphry Bannifter and his faiher were both fervants to and raifed by the duke of Buckingham; who being driven to abfond, by an unfortunate accident befalling the army he had raifed againft the ufurper Richard Ill. he without fuotman or page retired to Bannifer's houfe near S'mentbury, as to a place where he had all the reafon in the world to expect fecurity. Bannifter, however, upon the king's proclamation promifing 10001 . reward to him that Atrould apprehend the duke, betrayed his mafter to John Merton high Sheriff of Shropflire, who Sent him under a ftrong guard to Salifbury, where the king then was, and there in the market-place the duke was beheaded. But Divine vengeance purfued the traitor Bannifter; for demanding the 10001 . that vias the price of his mafter's blood, King Richard refufed to pay it him, faying, "He that would be falfe to fo good a malter, ought not to be encouraged." He was afterwards hanged for manflaughter, his eldeft fonsun mad and died in a hog-tty, his fecond hecame deformed and lame, and his third fon was drowned in a fmall puddle of water. His eldelt daughter was got with child by one of his carters, and his fccond was feized with a leprofy whereof the died.-Hif. of Eng. Svo. vol. i. p. 304 .

The following barbarous inltances are from ancient Hiftory.
4. When Xerses king of Perfia was at Celene, a Vid. Hero city of Phrygia, Pythius, a Lydian, who had his re-l. vii.c. 3i fidence in that city, and next to Xerses was the moft Seneca, du opulent prince of thofe times, entertained him and his Ira, I. itio whole army with an incredible magnificence, and made him an offer of all his wealth towards defraying the expences of his expedition. Xerxes, furprifed and charmed at fo generous an offer, had the curiofity to inquire to what a fum his riches amounted. Pythius made anfwer, that having the defign of offering thein to his fersice, he had taken an exact account of them, and that the filver he had by him amounted to 2000 talents (about 255,0001 . flerling), and the gold to 4,000,000 of darics (about 1,700,0001. fterling), wanting 7000. All this money he offered him, telling him, that lis revenue was fufficient for the fupport of this houfehold. Xerxes made him very hearty acknowledgments, and entered into a particular friendfuip with him, but declined accepting his prefent. The fame prince who had made fuch obliging offers to Xerses, having defired a favour of hira fome time after, that out of his five fons who ferved in his army, he would be pleafed to leave him the eldeft, in order to be a comfort to him in his cld age: the king was fo enraged at the propofal, though fo reafonable in itfelf, that he caufed the eldeft fon to be killed before the eyes of his father, giving the latter to underftand,

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 that it tras a favour he fpared him and the ref of his chiil:ien. Y t thi, is the fame Xerses who is fo much admierd ior his humane real ction at the head of his nume ou army, "That of to many thoufand mell, in 100 year tinat eiscre would not be one reauning; on which account be could not oroear weeping at the nncertainty and inliabinity of muman thing.". He might have found another fujget o retle tion, which wou'd have more jallly merited his tents and atlliction, had he turned his thoushts upon hamel, and contidered the reproaches he de erved for being the intirument of hallening the fatal term to millions of people, whom his cruel ambition was going to facritice in an uajuil and unnect firy war.5. Bafliu. Macedo the emperor, exercifing himfelf in hunting, a foort he took yreat delight in, a great ftag running furioufly againt him, fate ed one of the bra:ches of is horns in the emperor's girdle, and pulling him from his horfe, drayged him a good dif. tance, to the imminerit danerer ot his life; whech a gentleman of his retinue perceiving, drew his fword and cut the emperor's girdle afinder, which dfengaged him from the beaft, with little or 110 hurt to his ferlon. But onferve what reward he had for his pains: "He was fentenced to lofe his head for putting his fword fo near the body of the emperor;" and fuffered death accordiagly.

INGRESS, in Afronomy, fignines the fun's entering the firft icruple of one of the four cardinal figns, efpecially Aries.

INGRIA, a province of the Ruffian empire, lying on the gulf of Finland, being about 130 miles in length, and 50 in breadrh. It abounds in game and Sith; and here are a great number of elks, which come iil troojs from Finland in the fpring and autumn. It *as conquered by the Czar Peter the Great, and Feierfburgh is the capital town. It is bounded by the siver Neva, and the gul of Finland, on the north; Dy Great Nuvogorod, on the eaft and fouth: and by Limmia, on the weft.

INCROSSER, or ENGROSSER, in comm-n law, is one who buys up corn growing, or any provilius :y winolefale, before the market, to fell again. See Forf. Etaling.

It alfo lignifies a clerk who writes records or inflruments of law on Rkins of parchment. See ENGrosEing.
iNGUEN, in Amatomy, the fame with what is otherwife callen groin.

INGULPHUS, abhot of Croyland, and author of the hillory of that abbey, was born in London about A. D. 10:0. He rcceived he firlt part of his education at UVflminfler; and when he vifited his father, who belonged to the court of Edward the C infelior, he was fo fortunate as to engage the atrention $0^{\circ}$ Queen Edgitha. "I hat amiable and learned princels to a pleafure in examining our young Icholar on hi, pro gre's in grammar, and in difputing with him in lnoic; nor did the ever difmifs him without fome of fent as a mark of her approbation. From Weftminlier he e e it to Oxford, where he applied to the Aunds of rhetosic, aid of the Arillotelian philofophy, in which he made sreater proficiency than many of his contemeoratics. When he was about 21 years of age, !e 1.av i t.oduced to William duke of Normandy (who witited the
court of Progland, A. D. 1051, and rade himfeifliga'phus, fo agreeable to that prince, that he appointed him his In aler. Pecretary, and carrie 1 him with him into his. wn dominions. In a litte time be became the prime favourite of his prisce, and the difpenler of all prefermente, humbing fome, and exaling others, at hin pleature ; in which difticult fation, be confeneth, the did not behave with a proper degree of modelly and prudence. 'This excited the envy and hatred of many of the cuutiers; to avoid the effects of which, he ot. taind leave from the duke to go in pilgrimaze to the Holy Land. With a company of 30 horfumen, he joined Sigfrid duke of Mentz, who, with many Gcr. man nooles, bithops, clergy, and others, was preparing for a pilgrimage to Jerufalem. Witien they were all united, they formed a company of no fewer than 7000 pilgrims. In their way they lpent fonie time a: Conttantinaple, performing their devotions in the feveral churches. In their affage through Lycia, they were attacked by a tribe of Arabs, who killed and wounded many of them, and pluadered them of a pro. diyious mafs of money. Thofe who efcaped from this difiter, at length reached Jerufalen, vifited all the holy places, and bedewed the ruins of many churches with their tears, giving money for their reparation. They intended to have bathed in Jordan; but being prevented i,y the roving Arabs, they embarked on board a Genoefe fleet at Jopya, and landed at Irundufrum, from whence they traveiled throush Apulia to Rome. Having gone through a long courfe of devotions in this city, at the feveral place, dillinuuifhed for fanctity, they leparated, and every ne maje the beit of his way into his own country. When Ingulph and his company reached Normandy, they were reduced to 20 half-ifarved wretches, w thout money, ciothes, o: hories: ifaithful pieture of the difalters jourreys into the Holy Land, fo cominon in thole times. Inguiph was now !o murh difru!ed with the worid, that he reolved to forlalie it, and became a moak in the ab'ey of Fontenelle in Numady; in which, ater lome yers, he was adsanced to the otfice of prior. Wl:en hiscld mafer was teparing or his expedi is $n$ into Enpland, A. D. icG6, he was feli by hre abbet, with ico mertis in money, and 12 youing ran, istbly mourted and comslete! armed, as a prelent from their abbey. logulph ha ing found a $f$ vourabe ofocrnmi'y, prefented his men and money to his prince, "ho received $h \mathrm{~m}$ very eraciouliv; fore patt of the former affecion for hirn reviv nas in his bofom. In cortequence o this he re: Fed hira to the goverament of the rich absey of Croyland in Lincolsthor, A. D. $10-6$, in which be f"ent the laft 34 years of his life, gove ning that fuciety with great prudence, and protecting their polteifons from the rapacity of the neighbourinu barons by the ${ }^{5}$ aveur of his roral matier the lovers uf Englith hittor! and antuputier are much indebied to this learnes ab. 10', for his excellent hillory of the aubey of Croyland, from its oundation, 1. D. K64, to A. D. rog 1 , into which be hath introfoced much of the pencral hiftory of the Ling 1 m , wihh a varicty of cusinus aruecdotes that are nowh re elfe to be frunt. Ingulph died of the grut, at his abbey, A. D. s1cg, in the 79th year of his que.

INHALFR, in Medicine, a machine for breathing in waxa deaus into the lungs, recommended by Mr

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Mudge

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Inheritancerilulge in the cure of the cattarmous courb. 'I Lody of ri.e intrument holds about a piat; and the handle, which is fived to the fide of it, is hollow. In the lower part of the vificl, where it is fuldered to the handle, is a bole, by means of which, and three others on the upper part of the handle, the water, when it is loured into the iahaler, will rife to the fame lovel in hath. To the middle of the cover a flexible tube about five or fix inches long is fixed, with a mouth-piece of wood or ivory. Underneath the cover there is a valve nised, which opens and fhuts the communication between the Leper and internat part of the inhaler ard the external air. 'When the mouth is applied to the end of the tube in the act of infpiration, the air rulaes into the handle, and up through the body of warm water, and the lungs become, confequently, filled with hot vapours. In expiration, the mouth leing itill fixed to the tuoe, the breath, together wits the feam on the furface of the water in the inhaler, is forecd up through the valve in the cover. In this manner, therefore, the whole att of refpiration is performed through the mhaler, without the neceffity, in the act of expiration, of either breathing through the nofe, or removing the pipe from the mouth

INHERITANCE, a perpetual right or interen in lands, inver.ed in a perfon and his heirs. See Descent.

INHIBITION, a writ to inlibit or forbid a judge from farther proceeding in a caufe depending before him.

Sometimes prohibition and inhihition are put together, as of the fame impost ; lut inhibition is moil commonly a writ iffuing out of a higher court-chrifian to a lower; and prolibition out of the king's coust to an inferior court.

Inhtertios, in Scots Law, a diligence obtained at the fuit of a creditor againtt his debtor, prolibiting him from felling or contracting debts upon his eftate to the rreditor"s prejudice.

IN.IECTION, the forcibly throwing certain liquid medicines into the body by means of a fyringe, tube, clytter jilie, or the like.

Injection, in Surgery, the throwing in fome liquor or nuedicine into a vein opened by incifion. This jrasice, and that of transfution, or the conreying the arterial blood of one man, or other anmal, into arother, were onice greatly prachifed, but are now laid afide.
sinatonical $I_{\text {NeCtion, }}$ the filling the veffols of a lumman, or other animal body, with fome coloured fubllance, in order to make their figures and ramificatiors vimble.

1. The bell account of the method of injesing the fasizuiforous vellels of animals, is that by the late Dr Monro, publithed in the Medical Eflays, vol. i. p. 79.
"The influment with which the liquor is common!y thrown into the veffels is a tight eafy going fyringe of brafs, to which feveral hiort pipes are fitted, and can be fixed by forews, the other extremities of thefe pipes being of different diameter without any forew, that they may flide into other pipes, which are fo extetly adaited to them at ene con, that $w$ lie they are preiled a little together, nothing can pals tetucen them: and
becaufe their colefion is not fo great as to refift the Injechion puthing fouce of the injection, which would drive of this fecond pipe, and fpoil the whole operation; therefore the extremity of this .econd fort of pipes, which receives the fird kind, is formed on the outfide into a fquare, bounded behind and before by a riting circle, which hinders the key that clolely gralps the fipure part from thiding backwards or forwards; or a bar of brafs mult ftand out from each ficie of it to be held with the fingers. 'The other extremity of each of thefe fecond fort of pipes is of different diameter; and near it a circular notch, capable of allowing a thread to be funk into it, is furmed; by this, the theead tying the vellel at which the injection is to be made, sill not be allowed to flide off.
"Beiades this form defcribed, common to all this fecond fort of pipes, we ought to have fome of the larger ones, with an additional mechanifm. for particular purpofes; as, for imhance, when the larger veficls are injected, the pipe falke.sed into the vefiel ought either to have a valse or a ilup-cock, that may be turned at pleafure, to hinder any thing to get out froms the veffel by the pipe; otherwife, as the injection, in fuch a cale, takes time to coagulate, the people employed in maling the injection mult either continue all that while in the fame polfure; or, if the fyringe is too foon taken off, the injected liquor runs out and the larger veffels are emptied. When the firinge is not large enough io hold at once all the liquor necelfary to fill the veffels, there is a neceffity of filling it again. If, in order to do this, the fyringe was to be taken off from the pipe fixed in the veffel, fome of the injection would be loit, and what was expofed to the air would cool and harden; therefore fome of the pipes ought to have a reflected cus e tube coming out of their fide, with a valve fo difpofed, that no liquor can come from the fraight pipe into the crooked one, but, on the contrary, may be allowed to pafs from the crooked to the ftraight one: the injector then, taking care to keep the extremity of the reflected pipe inmerfed in the liquor to be injected, may, as foon as he has puflhed out the firlt fyringeful, fill it again by only drawing back the fucker; and, repeating this quickly, will be able to throw feveral fyringefuls into the veffels.
" All thefe different forts of pipes are commonly made of brafs.
"The liquors thrown into the veffels, with a defign to fill the fmall capillary tubes, are either fuch as will incorporate with water, or fuch as are oily: both kinds lave their advantages and inconveniences; which I flall mention in treating of each, and thall conclude with that which I have found by experience to fucceed beft.
"All the different kinds of glue, or ichtlyocolla, fyths, common glue, \&c. difiolved and pretty much diluted, mix eafily with the animal fluids, which is of great advantage, and will pafs into very finall velicls of a welf-chofen and prepared fubjećt, and often anfwer the intention fufficiently, where the defigt is only to prepare fome very fine membrane, on which no vellels can be expected to be feen fo large as the eye can difonver whether the tranfverfe icclions of the wfels wonld be circular, or if their fides anr comap'ed. But when the larger veliels are alfo to be prop red,
rection. there is a manifelt difadvantage to the weffulnefs and beauty of the preparation; for if nothing but the glutinoas liquor is injected, one cannot keep a fubject fo long as the glue takes of becoming firn ; ard therefore, in didecting the injected part, feveral vefels will probably be cut and emptied. 'To prevent this, one may indeed either foak the part well in alcohol, which coagulates the glue; but then it becomes fo brittle, that the leaft handling makes it crack; and if the preparation is to be kept, the larger velfels appear quite thivelled, when the watery part of the injection is cvaporated: or the efflix of the injection may be prevented, by carefully tying every vellel before we are obliged to cut it; fill, however, that does not hinder the reilels to contrat when the glue is drying. If, to obviate the'e difficulties, the glatinous liquor thould fr.f be injected in fuch quantity as the capillary vefiels will contan, and the commun oily or waxy injection is pu'hed in afterwards to keep the larger veffels diftended, the "ras is very apt to harden before it has run far chourh; the two forts of liquors never mifs to mix irregularly, and the whole appears interrupted and broken by thcir foun fenarating from each other; which is llill more remarkable afterwards, when the swatery raticles are evapurated.
"Spirits of vine coloured mixes with water and oils, and fo far is proper to fill the very. fnaller veffels with: but, on the other hand, it coagulates any of our liquor it meet, which frmetimes blocks u? the velels fo much, that no more injection will pafs; then it farce will fufpend forme of the puwders that prove the mon durable colours; and as it entirely evaporates, the veffels mult become very fmall ; and the fmall quantity of powder left, having nothing to ferve for connecing it's particles together, generally is feen fo interrupted, that the fmall ramifications of veffels rather have the appearances of random foratches of a peacil, than of regular continued canals.
" Melted tallow, with a little mixtare of oil of turpentine, may fometimes be made to fill very finall verfels, and keeps the larger ones at a full itretch; but where any quantity of the animal liquors are ftill in the veliels, it is liable to foo too foon, and never can he introduced into numbers of vefiels, which other liquors enter; and it is fo brittle, that very little handling makes it crack, and thereby renders the preparation very ugly (A).

- The method I have always fucceeded beft with, in making what may be called fubtile or fine injozions, is, firf throw in coloured oil of turpentine, in fuch a quantity as might fill the very fmall veffels; and, immediately afier, to puff the common coarfe injeation into the larger ones. The oil is fubtile enough to enter sather fraller capillary tubes than any colouring can;
its refinous parts, which remain after the foritucus Ifentur are evaporated, give a Culicient acicelion to the particles of the fusutance with which it is coloared, to keep them fro:n feparating, and it intimately inicorfurates with the coarfer injection; by which, it the injection is rightiy managed, it is impofibic or the th arpeit eye to difcover that two lurts have been made ufe of (is).
"A!l the liquors with which the vefiels of atimats are artibcially filled, having very faint, and near the fame colours, would not all appear in the very fmall velfels, becaule of their becoming entirely diaphanous, without a mixture of fome fubltnce to impart its colour to them; and where fereral forts of even the largeit vellels of any part were filled, one fort could not be ditinguilhed from another, unlefs the colour of each. was different; which has likewile a good effect in making preparations more benutiful. Wherefore anatomitts have made ufe of a variety of fuch fubftances, according to their different fancies or intentions; fuch as gambuge, farm, ink, butnt ivory, \&ec. which can be catily procured from painters. Míy delizn being only to condider thofe that are fit to be mixed with the injectiag liquors propofed to fill capillary vellils, which is icarce ever to be done in any other, except the branches of the arterics and of lome veins, I thall confine myfeit to the common colours employed to thele bait named two larts of veltels, which colours are red, green, and lometimes blue, without mentioning the chasir, whic! requise very litcic choice.
"Anatomits have, I imagine, propoled to imitate the natural colours of the arteries and veins in a living creature, by filling the arteries with a red fubstance, and the veins with a blue or green: from which, huwever, there are other adrantages, fuch as the ftrong retlection which fuch bolies make of the rays of light, and the unaptuefs $m$ ult fuch bodies have to tranfmit thefe fame rays, without at leat a coniaderable retlection of the rays peculiar to themfelves; or, in other wurds, their unfinefs to become completely pellucid; without which, the very fine veflels, after being injested, would itill be imperceptible. The animal or vegetable fubtances made ufe of for colvuring injectims, fuch as cochineal, laque, rad. arciuufu, brazilwood, indigo, Sic. have all o:se general fault of being liable to run into little bnots which fop fome of the veflels: their colour fades fuoner when kept dry; they mare eafly yield their tincture when the parts are preferved in a liquor; and rats, mice, and infects, will take them for food: for which reafons, thoug't I have freque tily fucceeded in injecting them, I rather profer the mineral kind, fuch as minjum or vermilion for red; of which this lat is, is my opinisa, the beit, becaufe it gives the brightelt coloar, and is commonly to be bought finely levigated. 'the greein-coloured powder
generally
(A) Rizierus (Introduct. in notitiam rerum natur. \&ic. 4o, Hatae, 1743, titut. Balfamum) gives Ruy Tch's method of injecting and preferving animals, which, he fays, Mr Biamentrolt, prefident of the Peteriburg acadenv, affured him was copied from the receite given in Ruyfch's own hand-writing to the Czar. Accurding to this receipt, melrod tallow, coloured with vernilion, to which, in the fummer, a little white wax was added, was Ruyrch's injecting ceracia materies
(B) Mrr Ranhy's inje:ting matter, as publifhed by Dr Hales, (H.emaf. Ex. 21) is white rofin and tallow, of each two nunces, melted and framed throus' linen; to :thich was added three ounces of vermilion, or fuely ground indigu, which was liflt well rubbed with eight ounces of turpentine varnilb,


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Injedion. generaily ufed is verdigrife; but I rather choore that preparation of it called diftited vercligrife; becaute is colvur i, brighter, and it decs not to uften run into fnali hnets as the common verdigrife, but didulves in the oily liquo:s.
"The method of preparing the injeetion compofed of tie'e materials, is to take for the line one, a pound of clat uil of tu:pentine, which is gradualiy poured on three ounces of vermilion, or dittilled verdigrife finely powdered, or rather well levicated by grimling on marble; Rir them well with a fmall wooden ipdula till they are exactly mised, then Itran all through a fine linen rag. The feprataion of the groffer particles is, however, $r$ : ther better made, by pouring fome ounces of the oll upon the po:sder, and after tirring them tose her itrongly, flop rubbing with the fpatula for a fec: nd or to, and pour off into a clean velfel the oil with the vermilion or verdigrife fufpended in it; and continue this fort of operation thli you obferve no more of the puwder come off; and all thet renains is granulated. The coarler iinjection is thus prepared: Take tallow, 1 pound; wax, bleached white, 5 ounces; falad oll, 3 ources: melt them in a \&eillet put over a lamp: then add Veasice turpentine, \& ounces; and as foon as this is diftolved, g:adually fprimile in of vermilion or verdizrife prepared, 3 ounces; then paîs all through a clean, dry, warnued linen-cloth, to feparate all the groffr particles; and, when you defign to make it run far into the veffls, lome oil of turpentine may be added immediately before it is t: fed.
"The next thing to be confidered, and indeed what chietly contributes to the tuccefs of injections, is the choice ard preparation of the fubject whofe velfels are to se filled.
" In chor fing a fit fu' ject, take thefe ferw general sule : 1 . The jounger the creature :o be injected is, the injeclion wil. cateris partzus, go farthef, and vice verfo. 2. 'The more the creture's ruids liave been diffolved and exhautied in life, the furcels of the operation will the greater. 3 . The lefs folid the part defigned to be oriected is, the more vefils will be filled. 4. The onor nembranous and tranf; arent parts are, the injection llows better; wherea, in the folid wery hard parts of a rigid old creature, that las died with its veffels full of thick frons blood, it is fcarely poff:ble to inject great numbers of imall veffeis.
" Therefore, in preparing a fubject for iujecting, the nincipal thines to be aimed at are, To dirolve the lluids. empty the veffels of them, relis the foiide, and present the injesion's coagulating too fonn. 'Fo anfwer all thefe intentions, authors have prover d to inj et tepid or warm water by the arteriee till it returnsclear and un inced by the reinc, and the veifels are thereby fo emrtied o blrod, that all the parts appear white; after which. they puih out the water by forcing in arr; and latity, ${ }^{2} y$ prefling with their hande, they fquecze the air alfo out. After this preparation,
one can indeed inject very fu rilel! ; but generally there are manvenien es attend :. For on at: tas , its ahere there is a remirkable turica call ioja, it never milis. to be fall ot the water, which is ant of $f_{\text {poll }}$ ant marts defignes to be ireterved either wet dry; and fome particles of the waier Celden mifs to ise mixed in the Latger as well an himaller vetf - l woth the vily inje :on, and make it appear difcmand and loroken: wherefore it is much better to let this i..jection of wates aloue, if it can be polifibly avoided, and rather to macerate the body or part to be injected a conaderable time in later, made fo warm (c) as one can hold nis hand easily in it; taking care to $k e_{p}$ th of an equal warmth all the time, by taking out tome of the water as it couls, and pouring in hot water in its place; by which he Vcffels will be futiciently foftened and relaxed, the blood will be melted down, and the injection can be in no danger of hardening too foon; whereas, if the water is too hot, the vefiels fhrisit, and the blool coagulates. From time to time we fyuecze out the liquids as much as polfible at the cui vellel by which the injeetion is to be thrown in (D). The time this maceration is to be comtinue $\%$. is always in proportion to the age of the fuijech, the bulk and thicknef of what we d ign to inject, and the quantity of blood we obferve in the vedels, which can only be leanned by experience; at le:at, however, care ought to be taken, that the whule fubjec, or part macerated, is perfeetly well warmed all through; and that we continue the preflure with our hands till no mocre blood can be brought away, whatever poistion we put the fubjeet in.

W'hen the fyringe, injections, and fubjects, are all in readinefs, one of the lecond fort of pipes is chofen, as near to the diameter of the veffel by which the injection is to be thrown as pulfible; for if the fipe is too large, it is almoft needlel's tu tell it cannot t.e introduced. It the prpe is much Imaller than the vefiel. it is fcarce polfible to tie them fo firmly together, but, oy the wrinkling of the coats of t e velie!, fome finall paffage will be le't, by which part of the injection will Ppring back on the injuector in the time of tne operatior, and the nearefi vellels remain afterwards undiflended, by the lofs of the quantity that onzes out. Having chofen a fit pipe, it is introduied at the cut orifice of the veffel, or at ios incition made in the lide of it; and then a waxed thread being brought round the veffel, as near to its coars as pofficle, by the fielp of a needle, or a flesible eyed prohe, the furgeon's knot is made with the thread, and it is drawn as firmly as the thread can allow; taking care that it thall be funk into the circular notcly of the pipe all around, otherwife it will very eafily nide off, and the pape will be brought out probably in the time of the operation, which rums it.
"If there bave bcen large vefiels cut, which communicate with the veffels you defign to injee, or if there are any others proceeding from the fame truak, which
(c) Ruy'ch orders a tevious maceration for a day or two in cold water; which mun have a better fffe in meltin the blod than warm water bas.
(D) Whan R:yfch intended to inject the whole body, he put one pipe urwards, and another dommards, is she defcending aorta.
dection. which you do not refolve to fill, let them be all carefully now tied up, to fave the injected liquor, and make the operation fucceed better in the view you then have.
"When all this is done, both forts of injections are to be warmed over a lamp, taking care to fir them contantly, left the colouring powder fall to the bottom and burn ( E ). The oil of turpentine needs be made no warmer than will allow the finger to remain in it, if the fubject has been previouly well warmed in water; when the maceration has not been made, the oil ought to be fcalding hot, that it may warm all the parts which are defigned to be injected. The coarfe injection ought to be brought near to a boiling. In the mean time, having wrapt leveral folds of linen round the parts of the fyringe which the operator is to gripe, and fecured the linen with thread, the fyringe is to be made very hot by fucking boiling water feveral times up ( $F$ ), and the pipe within the veffel is to be warmed by applying a [ponge dipped in boiling water to it ( c ).
"After all is ready, the fyringe being cleared of the water, the injector fills it with the finer injection; and then introducing the pipe of the fyringe into that in the veftel, be preftics them together, and either with one hand holds this latt pipe firm, with the other gripes the fyringe, and with his breall pullies the fucker; or, giving the pipe in the vellel to be held by an alliftant, in any of the ways mentioned in the defcription of thefe forts of pipes, he gripes the fyringe with one hand, and pulhes the fucker with the other, and confequently throws in the injectiv:, which ought to be done flowly, and with no great force, but proportioned to the length and bulk of the part to be injected and ftrength of the veffels. The quantity of this fine injection to be thrown in is much to be learned by ufe. The only rule I could ever fix to myfelf in this matter was to continue pufhing till I was fenfible of a fop which would require a confiderable force to overcome. But this will not hold where all the branches of any veffel are no: injected; as for inftance, when the veffels of the thorax only are io be injected : for the aorta bears too great a proportion to the branches fent from it, and therefore lefs fire injection is requifite here. As foor as that fop is felt, the fucker of the fyringe is to be drawn back, that the nearelt large vellels may be emptied. Then the fyringe is taken off, emptied of the fine injection, and filled with the ccarfer, which is to be pufined into the veffels quiclily and forcibly, having alvays regard to the ftrength and firmnefs of the veffels, bulk, \&c. of the part. Contince to thruft the fucker, till a full flop, or a fort of pufh backwards, is felt, when you muft beware of thrufting any more, otherwife fome of the veffels will be burft, and the whole, or a confiderable fhare of the preparation you defigned, will be fpoiled by the extravafation; but rather immediately fop the pipe by the turn-cock, and
take out the fyringe to clean it, and allow fufficient Injection. time for the coarfe injeetion to coagulate fully, before any part is diffected. Ruyfch, immediately after throwing in the injection, put the body into cold water, and ftirred it continually for fome tirae, to prevent the vermilion to feparate from the tallow."
II. The injection of the lymphatic fyftem is much more difficult than that of the fanguiferous, on account of the extreme fmallnefs of the veffels; fo that till very lately it was almoll quite impracticable. Methods indeed had been attemptud for this purpofe; but by reafon of the improper form of the inttruments, and the inferior fkill of anatomilts in former times, we may juftly look upon this as one of the moft modern improvements in anatomy.

The firft thing to be confidered, when the lymphatics are to be injected, is a proper method of difcovering them ; for this is by no means an ealy matter, on account of their fmallnefs and tranfparency.- 'ro find out thefe velfels, the lubject mult be viewed in a proper place, where the light is neither very frong nor very weak. Mr Sheldon, who has written a treatife upon this lubject, recommends a winter forenoon from ten to two ; it being chielly in the winter feafon that anatomical preparations are made, and becaufe at that time of the day the light is more clear and fteady. He fays alfo, from his own experience, that the light pafing through the glafs of a window is better for this purpofe than the open air, as the veffels are more diftinctly feen. The injecting of the veffels is likewife rendered more dificult in the open air by the eafe with which the humidity is evaporated from them. It will likewife be neceffary to incline the part in various ways to the light, as fome of the veffels are moft eafily difcoverable in one pofition and fome in another. The lacteal trunks under the peritoneal coats of the inteftines, and the lymphatics on the external furface of the liver, \&e. particularly require this method. He difommends the ufe of magnifying glaffes. "I am perfuaded (fays he), that thofe who attempi to find them through this medium will not acquire that wifus eruditus which is obtained to a furprifing degree by thofe who have been much experienced in injecting lymphatic vefiels. A lateral light is likewife preferable to a horizontal, or even to an oblique Ny-light.
" The fubjects muft be laid upon a teble of Gutacient height, which might be contrived with a ledge fised to the table in fuch a manner as to be water-proof; which would be ufeful for preventing the quickfilver, which is almont always necelfary for injecting there veltels, from being loil. 'The furface of the table thouid likewife be hollowed, fo that the mercury which falls may be collected in the middle, where a hole with a ftopper may be made to take out occafionally the quick filver which collects. Such a table would alfo be convenient for holding water for the purpofe of theeping membranous parts which are frequently to be irjeeted;
(E) Ruyfch melts his tallow by the heat of warm water, into which he puts the vefiel containing the injection.
(F) He warms his fyringe by laying it on hot coals.
(c) He warms his pipe, by putting the body, after the pipe is fixed in the veflel, into hot water. Whan :his is to be done, a cork ought to be put into the pipe, to prevent the water getting into the vefiel that is to be injeencd.

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fincection. and which, from being expofed to the air, become dyy; which alfo it is inconvenient and hazardous to move into water during the time of operation. Even a common table with a hole cut in the middle may anfiver the purpofe : the hole may be round or fquare according to the fancy of the anatomilt; but the table mutt be conftructed of fuch materials as are not liable to warp in warm water. Should the anatomilt not be provided with either of thefe tables, the farts must be laid in a tray or earthen dill, that the quickfilver may be faved."

The materials for injecting thefe vellels are only equickfilver, and the ceraceous or coarfe injection of anatomits; the former being always ufed in injesting the lymphatics and lacteals, it being almoft impoflible to fill them with another fluid in the dead body. The ceraceous injection is chietly ufed for the thoracic duct; and in fome particular inflances, where the lymphatic trunks have been found larger than the ordinary fize, a coarfe injection has been made ufe of.

Injections of the lymphatics may be made even while the animal is alive, and that without any great cruelty, by feeding it with milk previous to its being ${ }^{1}$ rantied. Of all the barbarous methods of opening the animal while alive, the moft ufeful feems to be that of Mr Hunter, who direets to perforate the fmall inteftines, and throw in ftarch-water with folutions of mufk, or indigo and ftarch-water. "In a word (fays Mr Sheldon), any gelatinous thuids rendered opaque with fuch colours as will be abforbed, are extremely ufeful for experiments of this kind ; for much more may be feen by examining the veffels diftended with a coloured thid from natural abforption, than by anatomical injection practifed in the dead body." Lieberkuhn firft difcovered the ampullulæ by feeding children in whom the lacteal glands were obftructed previous to their death with milk; by which means not only the lacteal trunks became diftended with chyle, but likewife the ampullulæ. Thus abforbing mouths of the lacteal venfels were difcovered by Lieberkuhn ; and in a fimilar manner Afellius difcovered the lacteals themfelves. Thus alfo Enltachius difcovered the thoracic duet in a horfe; and Mr Hewfon traced the lacteal veffels, lymphatics, and thoracic duct, in birds, by making ligatures on the roat of the mefenslery, and other parts, which had been previoully fed with barley. Mr Hunter likewife was enabled to obferve the lacteals of a crocodile when dillended with chyle.

The coarfe injection for the lymphatics is made of mutton-fuet and yellow refin, in the proportion of two thirds of refin to one of fuet. If required of a thicker conliftence, we may add a frall quantity of pure wax : if of a fofter quality, we may augment the quanrity of fuct : Orpiment or king's yellow is generally made ufe of; though others are equally proper, providc! they le fine enough.

The inftruments necelfary for injecting the lymphatic veflels are the injecting tube and pipec, lancets. blowpicer, knives, fciffars, forceps, needles, and thread. The old injecting tube las been found in a manner entirely ufelefs, the pipe being fixed in a glafs tube two or three fec: long; which is one f the reafons why, before the time of Hewfon, fo little of the lymphatic
fyfiem could be injested. Tubes of fuch a length are Injection entirely unmanageable by one perfon, and it is impofilble to perform the operation properly with two. To perform it in the beft manner, the inflrument flould be held in the hand like a pencil or pen. The inflruments ufed by our author are tubes made either of glafs or of brafs; which, when filled with mercury, may be held in the hand like a pen: a glafs tube, however, is preferable to the metallic one. It is fomewhat in the fhape of a trumpet; fix inches and a half in length, an inch and a half broad where broadelt, and three-eighths of an inch where narroweft. A collar of fteel half an inch broad and three quarters of an inch long is cemented to this pipe, and a fmaller tube of the fame metal is fcrewed upon the end of the collar; the whole terminati g in a capillary tube about an inch in length. This ?an is the mofl difficult part of the whole work to execute ; it fhould be drilled out of a folid yiece of metal, and not made of a thin bit of plate fuldered, as thefe are apt to tu: $n$ ragged in the edges, and the folder is allo liable to be de:froyed by the mercury. I hofe ufed by Mr Sheldon were made by drilling a fmall hole lengthwife through a bit of uell-tempesed uire. It is cleaned by means of a very fmall piece of Aleel-wire capable of pafling through the bore of the tube. This ought to be annealed left it frould break; in which cafe the broken bit could not eafily be got out. Very fmall tubes may be made of glafs drawn out as fine as we choofe; and though very apt to break, they are eafily repaired. They ought to be very thin, that they may be eafily meited. Sometimes it has been found convenient to fit the collar with a fteel Itop-cock.

The brafs tube reprefented by our author is about nine inches and a half in length, and half an inch wide where wideft. The collar is a full quarter of an inch broad, and three quarters of an inch long; a Iteel piece and capillary tube being fcrewed to it as in the other.

The lancets are to be exquifitely fharp, in order to cut into the lymphatic veffels. The latter are eafily inflated by the fmall filver blow-pipes ufually put up in the diflecting cafes by the London mathematical inftrument makers: diffecting knives, fine-pointed fciffars, accurately made diffecting forceps, with ftraight or crooked needles, are likewife fubltituted with advantage, as not being affected by the quickilver.

We muft next conlider the proper fubjects fer injection. Mr Sheldon recommends, that they fhould be as free from fat as pollible: he bas always found in the human fubject thofe who died univerfally dropfical, or of an afcites or anafarca, to be the beft, for the following reafons, viz. in fuch there is little or no animal oil. and but a very fmall quantity of red blood; both of which, when they occur in great abundance, very much impede the difcovery of the lymphatic veffels; but when the cellular veffels are loaded with water, the abforbents are more readily traced, and with lefs rifk of wounding them in diffection: the preparations alfo, particularly the dried ones, are more lating. This circumilance is found to be of moft confequence in preparing the abforbent vefiels of the trunk and extremities of the human fubject. Of all the vifcera in young fubieets, only the liver and lunes can be injected with fuccels; and thefe may be fuccefffully injected even in the fuetus. It will be moll proper to begin the operas

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Injection. tion upon the fubject immediately after death, as lymph or chyle will then be more readily found in the veffels, than when we wait a longer time. In preparing the lacteals, previou.ly dittended with milk in the living fubject, it is proper to have the intellines and mefentery plunged (with the ligature upon the root of the latter) into tectified fpirit of wine. This procefs will coagulate the chyle; and the fluid being opaque, the veffels will be beautifully feen when we mean to prepare the parts, by preferving then in proof-fpirit, as wet fpecimens: "In this way (fays Mr Sheldon) I have made in the dog one of the moft natural preparations that can be feen of the lacteals injeated from their orifices by the natural abforption." We may alfo prepare the lateals by the method ufed by Mr Hunter, already mentioned; by which they will be very confpicuous, by the indigo abforbed from the cavity of the inteflines. By tying the thoracic duct near its infertion into the angle formed between the fubclavian and jugular veins on the left fide, or by tying thefe veins on both fides, we may diftend almoft all the abforbents of the animal. Thus we are enabled to purfue thefe veffels in many parts where they have not yet been difcovered, where they can fcarcely be traced by injection, and even in fome parts where it is utterly impoflible for the injections to reach them.

Another method, fometimes fuccefffully ufed by ous author, was firt practifed by Malpighi. In this the part is to be fteeped in water, and the liquid changed as long as it appears tinged with blood; fuffering the parts afterwards to remain in the fame water till the putrefaction begins. As foon as this begins to take place, the air which is extricated will diftend the lymphatics, fo that they may be eafily feen, and then injected with quickflver. It is, however, remarkable, that this method will not in general anfwer fo well in the human fpecies as in quadrupeds; the air having never paffed by putrefaction into the human lacteals in any of the fubjeets which Mr Sheldon tried, though it will take place in thofe of the horfe or afs. and maay other animals: drawing of the lacieals may likewife be made in this method to very great advantage. In fome parts of the human body allo this method may be employed to advantage; as the liver, heart, \&c. It may likewife be ufeful to nake ligatures on the large trunks of the veffels previous to the maceration, that thus the air may be conined as foon as it is extricated from the coats by putrefaction. Our author adds, that if ligatures were made upon the wrilts and legs in articulo mortis, or immediately after death, the lymph would be flopped in the veffels, the latter would become diftended, and might be injected with the greateft facility by the common method a fter taking off the ligature. Mr Sheldon in fuch a cafe recommends the tourniquet. "I have reaton (fays he) to believe, that abforption goes on as long as nufcular irritability remains; which laft continues a conliderable time after the general $\mathbf{l}$ e of the animal is lolf." On this, however, we cannot forbear to remark, that making ligatures for fuch purpofes upon a human creature in articulo mortis. or even immediately after death, favcurs fo mech of larlarity, that we calinot think it will be often practifed. In fome cafes, even in the dead fubjeet, ligatures are ufful; as when we are fearching for the lymphatics in the fingers and toes.

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In thefe it is ufeful to hroke up the parts with the Injection. finger, by which means the fmall quantity of lymph remaining in the veffels will be forced upwards, and ftopped by the ligature; after which the veffels may be eafly injected with quickfilver, as already mentioned.

To inject the veffels, we muft open one or more of them, direting the point of the lancet alnoft always towards the trunk or trunks of the velfiels, and taking care not to carry the inciion through the oppofite fide. If the velfels happen to lie under the peritoneum as the lacteals, or under the pleura as the lym. phatics of the lungs, we may cut into their cavity through thefe membranes. In injecting thofe of the extremities, however, and in many other parts of the body, it is abfolutely necellary to difiect the veliels we defign to fill away from the fat and reticular fubllance before we attempt to open them with the lancet. The tube with the pipe affixed to it is previouily to be filled with mercury : the anatomift then inllates the veffel by means of the bluw-pipe, takes the tube from the affitant, and introduces the fmall tube into the puncture. In this operation it will be found neceflary not to carry the tube farther into the veflel than is fufficient to give the mercury a free paffage; for if we introduce it farther, the palage of the mercury will be impeded by the pipe being pulhed againft the fide of the vefiel. Should not the tluid be able to effeet a pafiage, it will then be neceflary to prefs upon the furface of it in the tube with our fingers. If it defcend freely, and without any of it paffing between the fide of the veffel and fmall pipe, we have only to fill up the tube with mercury as the latier defcends; but if it gets out, we mult then tie the velfel. This, however, thould always be avoided if pooffible; becaufe, it not very dexteroully performed, the operator will be apt to feparate the tube from the velfel ; and on this account the puncture ought always to be very fmall, no larger indeed than is necellary to allow the pipe to get in with dificulty. As the injection proceeds, the preffure upon the furface of the quickitiver mull be carried on higher and ligher in the courfe of the lymphatic, till we come near the gland or glands into which the reffels terminate; otherwife we thail feldom get the cells of the glands, or the veliels emerging from the cppofite fice of the glands, well injected. In injecting the lymphatic veffels of the extremities, it will be ufeful to raile the part where the pipe is inferted higher than the other end of the limb, and to make the affitant pre with his hands along the ilain in the courfe of the velfels, which will favour the progrefs of the injection. When the veffels are fufficiently filled, which may be known by the fwelling of them, and by the refiftance the mercury meets with, the a fiftant paffes a ligature about the veffel and ties it above the puncture before the anatomitt withdraws the injec-tion-pipe.

The method of injesting the larger trunks or thoracic duct with the coarfe injection is exactly fimilar to that already defcribed for the fanguiferous veffels. Mr Sheldon, however, recommends the ufe of fome pipes of a particular confruation invented by himfelf. The improvement corfifils in flaping the ends of the pipes like a pen; taking care to make the edges and point blunt, to avoid cutting the vcfiel wheu we introduce then. Thus much larger tubes than thofe com-
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Injeation. monly in ufe maxy be admitted; and there is no occaficn to make any bulb or rifing near the extremity ot thet: frmall pipes to prevent the thr ad from flipping off: for this will cortainly hinder us from inferting pipes of fuch diameter as might otherwife be duare.

Having thus fhown the method of injecting the lymphatics, our author nest proceeds to defcribe the methud of difecaing and preparing them either for inmediate demonfration, or for prefervation for any length of time. In the diffection, great care is requiite, on account of the exquifite thinnefs of their coats: but if this fhould happen by accident, it will then be neceffry to introduce the pipe at the ruptured part; and having fecured it above and below witl: ligatures, to fill it again as befure directed. Our author recommends, for the purpofe of difection, fuch knives as are made ule of by the Germans and French in tracing the nerves. They mult be made thin in the blade like lancets, and not much larger. A variety of different fhaped blades, forne fingle and others double edged, will be neceflary for various parts of the body; the fault of the common dillecting knives being that they are too thich in the blade, which makes them foon blunt, and occations the trouble of perpetual grinding, which is not the cafe with thofe julf recommended. A fharp-pointed forceps is necelfary, in order to lay faft hold of the fmallefl portion of cellular futfance; but they ought ne: to be fo fiarp as to endanger the puncturing of the veffels: nor fhould they by any means be towed or fliff in the fpring, to prevent the fingers of the operator from being wearied in the operation. They flould alfo be made in fuch a manner as to hold large as well as fimall portions of reticular fubfance. For diffections of this kind, frue-pointed fcilars and lancețs fixed in handles are fometimes necelfary; and it is frequently of ufe to plunge the parts into water, in order to loofen the reticular membrane connected with the outfide of the coats of the veffels; by which means they may be diflected more eafily, and with lefs danger of wounding them. The blood may be extracted by frequently changing the water. After being injected with quickfilver, the parts frould not be allowed to remain long in the water, becaufe the volatile alkali formed by putrefaction is apt to change the colour of the mercury.

The differion being performed, the preparation is then to be preferved either in a wet or dry ftate, according to its nature. Preparations of the larger parts, as the trunk or extremities, flould be preferved dry; and to dry them effectually, they fould be expofed to a free current of air, bet not to the rays of the fun; and the vefl. 1 l fhould be difplayed in their natural fituation. Wihen fully dried, they ought then to be varnifhed over with tranfparent finit or copal varnih : which will not only preferve them from inferts, but render them more beautiful, and the veffels more confpicuous. They thould then be inclofed in glafs cafes, where they are to be placed in a horizontal puffition, and handled as little as polfible.

To make preparations of the thoracic duct, we murt in the fill plase fill the aorta, vena cava fuperior, and vena azygos or intercolalis, with coarfe injection; then fill, with the fame, the veffels below the right crus or little mufcle of the diaphragm. The duct is fometimes prepared with quickfilver; but Mr Sheldon recommends to anatomifts to make drakings of any
thing new or remarkable in their prefarations of the Injection. lymplatic veffels with quickfilver; as moit of thofe ipecimens, particularly fuch as are dried, become at latt totally uffelef by reaton of the drying of the weffels ind the efcape or blackening of the mercury ; or from the varnifi growing more ard more opaque with age. The quickiniver injection, however, in fome cafes is very uleful. Thus, for imit :nce, if we wifh to demonftrate the valves in the thoracic duat, or any other large abforbent vefiel, we need unly inject the veffels with quick filver, difect and dry them, then cut them open, and let the mercury run out: after which the valves will appear by making fections in the coats of the veffels. 'This may be done fill better by varnih. ing the veffels three or four times before the fections are made; becaufe the varnifh will frengthen the fides of the veffel. In wet preparations the valves in the cavities of thele parts may likewife be demonfrated by opening them; or by inverting the veffels and fufpending them in proof malt-fpiits. Thus the valves that cover the ternimations of the thoracic duct on the infide of the angle formed between the jugular and fubclavian teins on the left fide, and thole which terminate the lympliatics on the right fide of the neck, arm, and lungs, may be beautifully demouftrated. Specimens of the lacteal veffels, of the abforbents of the heart, lungs, liver, Ipleen, diaphragn, Lidneys, \&c. may be hept wet or dry, according to the particular nature of the preparation or view of the anatomil. Some preparations are the better for being dried and afterwards immerfed in phials full of oil of turpentine ; by which means the flefh will be rendered tranfparent, the veffels diftinctly feen, and the veffiels appear extremely beautiful. The only diladvantage of this method is, that the parts on which the veifels pafs, do not at all preferve their natural bulk by reafon of their Ahrinking up; and as the wet preparations are fee from this inconvenicnce, Mr Sheldon does not hefitate at afigning them a decided fuperiority over the dry ones.-Sometimes it is ncceffary to fix the preparations upon fliff paper or patteboard, on account of their weight after being injected with mercury. The paper or patteboard on which they are faltened ought to be of various colours, according to the nature of the preparation, in order to form a proper ground for howing the lymphatic veffels. Such fmall preparations as are preferved in fpirits, or oil of turpentine, may be kept in bottles well clofed with ftoppers; and the larger in common preparation glafles. Our author defrribes a fimple method of flopping the mouths of thefe preparation glafles, by which means the flopper is rendered nearly as durable as the glaís itfelf. "In ordcr to execute it, let the anatomit take care to have the upper furface of his bottles made plain, by defiring the workmen th the glafs-houfe to flaten them in the making. This they will eafily do in forming the round ones, but the flat bottles are attended with confiderable difficulty. She right way to make them, I believe, would be to blow them in mouids of various fizes; the workman fhould likewife form the bottoms of the bottles perfectly llat, that they may ftand upright and fteady. Bottles of this form being provided for the larger preparations, we grind the upper furface of them on a plain plate of lead, about a quarter of an inch thick, and two feet in diameter ; firf with fine emery and wa-

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Ingection. :cr, then with powdered rotten ftone, or putty firt wet srith water and at lat dry ; fo that the furface may be redured to an cxact horizontal plane, and of as fine a polith as plate-glals. 'this will foon be done, as the mancurre requires but litele dexterity; and the anatomit houl! be provided with a confiderable number of thefe glaffes prepared as above directed. To the top of each butte a piece of plate-glafs, cut by a diamond, is to be adapted fo as completely to cover, but not projeit over, the edge of the bottle. When thele two fmooth fuifaces are put upon each other, with a drop of water between, the attraction of colefion is fo confiderable, that it requires great force to feparate them."

Many preparations of the lymphatics, and other parts preferved in bottles, do not require any frings to fufpend them ; particularly when fixed on pafteboard or paper: luch as require fufpenfion thould be tied to flring: fixed to the preparation below, and to fmall holes drilled in the fubftance of the glafs at the bottom of the neck; "r to fmall bits of glafs that may be fixed on the infide of the fame part. The preparation is thus fufpended in limpid proof malt-fipirit, the bottle being almoft completely filled; the upper and polithed furface of the bottle, and the plate of glafs, are to be wiped clean and dry; a drop of folution of gam arabic is to be put on the pollhed furface of the bottle, the top ftrongly and fteadily prefled upon it, fo as to bring the two furfaces into as clofe contact as polifle; after which the botile is to be placed in a cool airy place to dry. A piece of wet ox-bladder, freed from fat, and foak: 1 in water till it becomes mucilaginous, is then to be placed over the top, the air prefied out from between it and the glafs; after which it mult be tied with a packthread dipped in the folution of gum arabic. The bladder being cut off neatly under the laft turn of the thread, is then to be dricd, the ftring taken cautioufly off, and the top and neck' painted with a compofition of lamp-black mised with japanners gold iize : this foon dries, and leaves a fine finocth glofly furface, from which the dirt can at any time be as readily wiped off as from a mirror. By this method large bottles are as eafily and effeitually fecured as fmall ones; and it is found to anfiver as well as the hermetical fealing of glaffes, which in large veffels is aitogether impracticable. If the bottoms have any inequalities which prevent them from flanding iteady, they may be eafly made perfectly flat by grinding them with emery on the plate above-mentioned. The tops, if well gummed, will even remain perfectly fixed on the glaffes without the bladder: though in the common upright ones it may be advifable to put it on as a defence. Our author informs us, that fince his making this difcovery, he has ufed glafs faucers; with flat tops gummed on. In thefe veliels the preparations, by reafon of their borizontal polture, appear to great advantage. Thus he has exhibited very early abortions in their membranes, and fome other preparations that cannot be fufpended or viewed conveniently in the perpendicular direction. Some very delicate preparations, particularly thofe intended to be viewed with the microfcope, thofe of the ampullu'se hetexe of Leberkuin, an of the values of the abforbents, may be pre'erved either in fpirits or dry in tubes clofed in the manner jult mentioned, and will
appear to great advantage. Some of the dry ones may alfo be advantageoully placed in fquare oblung boxes, made of piects of plate or white glafs neatly gummed together, with narrow flips of white or coloured paper, and the objects may be conveniently viewed in this manner. With refpeat to the flopper bottles, which are very consenient for holding fmall preparations, our author advifes the foppers to be perfcetly well ground ; that they pafs rather lower down than the neck of the bottle for the convenience of drilling two holes obliquely through the inferior edge of the fubflance of the itopper, oppolite to each other, for the convenience of fixing threads to hold the fubject ; for if the threads palis between the neck and itopper, a fpace will be left; or if the itopper be well ground, the neck of the bottie will be broken in endeavouring to prefs it down. On the other band, if any 〔pace be left, the thread, by its capillary attraction, will act from capillary attraction, raife the firits from the bottle, and caufe evaporation, which will likewife take place from the chink between the ilopper and neck.

INISTIOGE, a poft town of Kilkenny, in the pro. vince of Leinfter; 63 miles from Dublin. It is alfo a borough, and returns two members to parliament; patronage in the reprefentative of Sir William Fownes.-It has two fairs.

INIFIATED, a term properly ufed in foeaking of the religion of the ancient heathens; where it fignifies being admitied to the participation of the facred myfteries. The word comes from the Latin initiatus, of initiare, initiari; which properly fignifies to begin facrificing, or to receive or admit a perfon to the beginning of the mylteries, or of ceremonies of lefs importance.

The ancients never difoowered the deeper myfteries of their religion, nor even permitted fome of their teniples to be open, to any but thofe who had been initiated. See Mysiery.

INJUNCTION, in Law, a writ generally grounded upon an interlocutory order or decree out of the court of chancery or exchequer, fonetimes to give poffeffion to the plaintiff, for want of the defendant's appearance; fumetimes to the king's ordinary court, and fometimes to the court-chriltian, to fop proceedings in a caufe, upon fuggeftion made, that the rigour of the law, if it take place, is againft equity and confcience in that cafe, that the complainant is not able to make his de. fence in thefe courts, for want of witmefies, \&ic. or that they at erroneoufly, denying him fome ju't atvantage. The writ of injunction is directed not only to the party himfelf, but to all and fingular his counSellors, attorneye, and 反olicitors; and if any attoriey, after having been lerved with an injunction, proceed afterward contrary to it, the court of chancery will commit the attorney to the Flect for contempt. But if an injunction be granted by the court of chancery in a criminal matter, the court of king's beuch may brak it, and protect any that proceed in contempt of it .

INJURY, any wrong done to a man's perfon, reputation, or goods. See Ass.nilit.

INK, a black liquor ufed in writing, generally made of an infufion of galls, copperas, and gum-arabic.

The properties which this liquor ought to have, are, r. To now freely from the pen, and fink a litt'c into the paper, that the writing be not eafly difchargcd. z. A very deep tlack colour, which fhould be as deep at frrf as at any time afterwards. 3. Durability, fo that the writing may not be fubject to decay by age. 4. Ink hoould be dellitute of any corrofive quality, that it may not deftroy the paper, or go through it in fuch a manner as to render the writing illegible. So kind of ink, however, hath yet appeared which is pofeffed of all thefe qualities. The ink ufed by the ancients was poffeffed of the fecond, third, and fourth qualities abore-mentioned, but wanted the fref. Dr Lewis hath difcovered its compofition from fome paffages in ancient authors. "Pliny and Vitruvius (fays he) exprefsly mention the preparation of foot, or what we now call lamp-black, and the compofition of wri-ting-ink from lamp-black and gum. Diofcorides is more particular, fetting down the proportions of the two ingredients, viz. three ounces of the foot to one of the gum. It feems the mixture was formed into cakes or rulls; which being dried in the fun, were occafionally tempered with water, as the cakes of Indian ink are among us for painting."

In Mr Delaval's Treatife on Colours, p. 37. he acquaints us, that with an infufion of galls and iron filings, he had not only made an exceedingly black and durable ink, but by its means, without the addition of any acid, dyed filk and woollen cloth of a good and lafting black. This kind of ink, however, though the colour is far fuperior to that of any other, has the inconvenience of being very eafily dilcharged, either by the fmalleft quantity of any acid, or even by fimple water ; becaule it does not penetrate the paper in fuch a manner as is neceflary to preferve it from the inflantaneous attion of the acid or of the water. During the action of the infufion of galls upon the iron in making this kind of ink, a very confiderable effervefcence talies place, and a quantity of air is difcharged, the nature of which has not yet been examined.

The materials ufually employed for the making of ink are, common green vitriol, or copperas and galls; but almoft all of them are deficient in durability, which is a property of fuch importance, that Dr Lewis hath thought the fubject of ink-making not unworthy of his attention. From experiments made by that author, he infers, that the decay of inks is chiefly owing to a ceficiency of galls; that the galls are the moft perifhable ingredient, the quantity of thefe, which gires the greateft blacknefs at firft (which is about equal parts with the ritriol), being infufficient to maintain the colour : that, for a durable ink, the quantity of galls cannot be much lefs than three times that of the vitriol; that it cannot be much greater without leffening the blacknefs of the ink : that by diminithing the quantity of water, the ink is rendered blacker and more durable; that diftilled water, rain-water, and hard fpring-water, have the fame effects: that white wine produces a deeper black colour then water; that the colour produced by vinegar is deeper than that by wine ; that prooffpirit extracts only a reddih brown tinge; that the laft-mentioned tincture finks into, and fpreads upon, the paper; and hence the impropriety of adding fpitit of wine to ink, as is frequently directed, to prevent mouldizefs or freezing : that other aftringents, as oak-
bark, bino:t, floc-bark, \&ic. are not fo effectual as galls, nor give fo good a black, the colour produced by mont of thefe, excepting oak-bark, being greenim: that the juice of hoes does not produce a black colour with martial vitriol; but that, neverihelefs, the writing made with it becomes black, and is found to be more durable than common ink: that inks made with faturated folutions of iron, in nitrous, marine, or acetous acids, in tartar, or in lemon juice, were much inferior to the isk made with martial vitriol: that the colour of ink is depraved by adding quicklime, which is done with an intention of deltroying any fuperabundant acid which may be fuppofed to be the caufe of the lofs of the colour of ink: that the bell method of preventing the effects of this fuperabundant acid is probably by adding pieces of iron to engage it; and that this conjecture is confirmed by an infance the author had heard, of the great durability of the colour of an ink in which pieces of iron lhad been long immerfed: and laftly, that a decoation of logwood ufed inflead of water, fenfibly improves both the beauty and deepnels of the black, without difpofing it to fade. The fame author oblerves, that the addition of gum-arabic is not only ufeful, by keeping the colouring tnatter fufpended in the fluid, but alio by preventing the ink from fpreading, by which means a greater quantity of it is collected on each Aroke of the pen. Sugar, which is fometimes added to ink, is found to be much lefs effectual than gums, and to have the inconvenience of preventing the drying of the ink. The colour of ink is found to be greatly injured by keeping the ink in veffels made of copper or of lead, and probably of any other metal, excepting iron, which the vitriolic acid can diffolve.
The foregoing experiments point out for the belk proportions of the ingredients for ink. One part of green vitriol, one part of powdered logwood, and three parts of powdered galls. The beft menftruum appears to be vinegar or white wine, though for common ufe water is fufficient. if the ink be required to be of a full colour, a quart, or at moll three pints, of liquor, may be allowed to three ounces of galls, and to one ounce of each of the other two ingredients. Half an ounce of gum may be added to each pint of the liquor. The ingredients may be all put together at once in a convenient veffel, and well fhaken four or five times each day. In 10 or 12 days the ink will be fit for ufe, though it will improve by remaining longer on the ingredients. Or it may be made more expeditioufly, by adding the gum and vitriol to a decoetion of galls and logwood in the menftruum. To the ink, after it has been feparated from the feculencies, fome coarfe powder of galls, from which the fine duft has been fifted, together with one or two pieces of iron, may be added, by which its durability will be fecured.

In fome attempts made by the DoCor to endow writing ink with the great durability of that of the ancients, as well as the properties which it has at prefent; he firf thought of ufing animal glues, and then of oily matters. "I mixed both lamp-black (fays he) and ivory-black with folution of gum-arabic, made of fuch confilience as juft to flow fulficiently from the pen. The liquors wrote of a fine black colour ; but

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when dry, part of the colour could be rubbed off, efpecially in moilt weather, and a pencil dipped in water walhed it away entirely.
" I tried folutions of the animal-glues with the fame event. Ifinglafs or fith glue being the moft difficultly diffoluble of thefe kinds of bodies, I made a decoction of it in water, of fuch frength that the liquor concreted into a jelly before it uas quite cold : with this jelly, kept fluid by fufficient heat, I mixed fome ivory-black: characters drawn with this mixture on paper bore rubbing much better than the others, but were difcharged without much difficulty by a wet pencil.
" It was now fufpected, that the colour could not be fufficiently fixed on paper rithout an oily cement. As oils themfelves are made mifcible with watery fluids by the intervention of gum, I mixed fome of the fofter painters rarnilh, aftermentioned, with about half its weight of a thick mucilage of gum-arabic, working them well together in a mortar till they united into a fmooth uniform mafs: this was beaten with lamp-black, and fome water added by little and little, the rubbing being continued till the mixture was diluted to a due confiftence for writing. It wrote freely, and of a full brownih black colour: the characters could not be difcharged by rubbing, but water wained them out, though not near fo readily as any of the foregoing. Inftead of the painters varnifh or boiled oil, I mixed raw linfeed oil in the fame manner with mucilage and lampblack; and on diluting the mixture with water, obtained an ink not greatly different from the other.
"Though thefe oily mixtures anfwered better than thofe with fimple gums or glues, it was apprehended that their being difchargeable by water would render them unfit for the purpofes intended. The only wy of obviating this imperfection appeared to be, by ufing a paper which thould admit the black liquid to fink a little into its fubftance. Accordingly 1 took fome of the more finking kinds of paper, and common paper made damp as for printing; and had the fatiffaction to find, that neither the oily nor the fimple, gummy mixtures fpread upon them fo much as might have been expected, and that the characters were as fixed as could be defired, for they could not be wafleed out without rubbing off part of the fubflance of the paper itelf.
"All thefe inks muft be now and then firred or fhaken during the time of ufe, to mis up the black porvier, which fitles by degrees to the botiom: thofe with oil muft be well thaten alfo, though not ufed, once a-day, or at leaft once in three or four days, to keep the oil united with the water and gum; for, if once the oil feparates, which it is apt to do by flanding at reft for fome days, it can no longer be mixed with the thin fluid by any agitation. But though this imperfef union of the ingredients renders thefe inks lefs fit for general ufe than thofe commorily employed, I apprehend there are many occafions in which thefe kinds of inconveniences will not be thought to counterbalance the advantage of having writings which we may be affured will be as lafting as the paper they are writen upon. And indeed the inconvenience may be in a great meafure obviated by uing cotton in the inkfland, which, imbibing the liuid, prevents the leparation of the biack powder diffufed through it.
"All the inks, howewer, made on the principle we are now fpeaking of, can be difcharged by wallo. ing, unlefs the paper admits them to fink into its fubftance. The ancients were not infenfible of this imperfection; and fometimes endeavoured to obviate it, according to Pliny, by ufing vinegar, inftead of water, for tempering the mixture of lamp-black and gum. I tried vinegar, and found it to be of fome advantage, not as giving any improrement to the cement, but by promoting the finking of the matter into the paper. As this wafhing out of the ink may be prevented ay ufing a kind of paper eafy enough to be procured, it is fcarce to be confidered as an imperfection; and in. deed, on other kinds of paper, it is an imperfection only fo far as it may give occafion to fraud, for none of thefe inks are in danger of being otherwife difcharged than by defign. The vitriolic inks themfelves, and thole of printed books and copperplates, are all difchargeable; nor can it be expected of the ink-maker to render writings fecure from frauds.
"But a further improvement may yet be made, namely, that of uniting the ancient and modern inks together ; or ufing the common vitriolic ink infead of water, for tempering the ancient mixture of gum and lamp-black. By this method it fhould feem that the writings would have all the durability of thofe of former times, with all the advantage that refults from the vitrolic ink fixing itfelf in the paper. Even where the common vitriolic mixture is depended on for the ink, it may in many cafes be improved by a fmall addition of the ancient compofition, or of the common Indian ink which anfwers the fame purpofe: when the vitriolic ink is dilute, and flows. fo pale from the pen, that the fine ftrokes, on firft writing, are farcely vifible, the addition of a little Indian ink is the readieft means of giving it the due blacknefs. By this admisture it may be prefumed alfo that the vitriolic ink will be made more durable, the Indian ink in fome meafure covering it, and defending it from the action of the air. In all cafes, where Indian ink or other fimilar compofitions are employed, cotton fhould be ufed in the inkfand, as already mentioned, to present the fettling of the black powder."

Since the invention of printing much lefs attention than formerly has been paid to the making of ink, fo that now the art feems to be in a great meafure loft. This will appear from a comparifon of fome ancient manufcripts with the writings of modern times. It being of the utmoft importance, however, that public records, wills, and other :aluable papers, which carnot admit of being printed, thould be written with ink of a durable quality, this inattention feems to have been very culpable, and a refloration of the method of making writing ink a very valuable acquifition. "The neceflity (fays Mr Ahle ${ }^{*}$ ) of paying greater attention to * Origin of this matter may readily be feen, by comparing the rolls Alpbab. and records that have been written from the 15 th Writing. century to the end of the 17 th, with the writings we have remaining of various writings from the 5 th to the I 2 th centuries. Notwitbfanding the fuperior autiquity of the latter, they are in excellent prefervation; but we frequently find the former, though of more modern date, fo much defaced that they are fearcely legible."

Our author agrees with Dr Lewis in the opinion

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Tuls. that the ancient inks wetc compoied of foot or ivory black infead of the galls, copperas, and gurne, which form the compontion of ours. Befides their black inks, however, the ancients ufed various other colours, a: red, gold and filver, purple, \&xc. Green ink was frequently ufed in Latin manufcrints, elpecially in the latier ages; and it was frequently employed in fignatures by the guardians of the Greek emperors thll their wards were of age. J3lue or yellow ink was feldom ufed except in manufcripts; but (lays Mr Aftle) "the : ellow has not been mucli in ufe, as far as we can learn, thefe 600 years." Some linds of characters, particularly the metallic, were burnithed. Wax was ufed by the Latins and Greeks as a varnith, but efpecially by the former, and particularly in the gth century. It continued a long time in vogue.

A trentife upon inks was publihed by Peter Cani. parius profeflor of medicine at Venice; of which an edition was printed at London in 1660 . It is divided into lix parts. The firlt treats of inks made from py. rites, fones, and metals; the fecond of fuch as are made from metals and calces; the third from foots and vitriols; the fourth of the different kinds of inks ufed by the librarii or book-writers, by printers, and engravers; likewife of ftaining or writing upon marble, fucco, or fcaliolia, and of encaultic modes of writing; alfo of liquids for painting or colouring leather and linen or woollen cloth: reftoring inks that had been decayed by time; together with many methods of effacing writing, reftoring decayed paper, and different modes of fecret writing. The fifth treats of writing inks made in different countries from gums, woods, the juices of plants, \&c. as well as of different kinds of varnifhes. The fixth treats of the different methods of extracting vitriol, and the chemical ufes of it.

Weckerus de Secretis, a treatife printed. at Bafl in 1612 , contains a number of curious particulars concerming ink. He gives alfo receipts for making gold and filver inks, compofed both with thefe metals and without them; directions for making inks for fecret writing, and for defacing them; though in this laft part there are many particulars bordering too much on the marvellous.

In the Philofophical Tranfactions for $178 \%$, Dr Blagden gives fome account of a method of reftoring decayed inks fo as to render them legible. His experiments originated from a converfation with Mr Afle already quoted, on the queftion whether the inks make eight or ten centuries ago, and which are found to have preferved their colour very well, were made of the fame materials now employed or not? In order to secide the queftion, Mr Aflle furnifhed the doctor with feveral manuleripts on parchment and vellum from Whe $9^{\text {th }}$ to the $1 \mathrm{~g}^{2}$ centuries inclufively. Some of thefe were ftill very black; others of different thades, from a deen yellowif hrown to a very pale yellow, in fome parts fo faint that it con!d farcely be feen. This was tricd with limple and phlogilticated alkalies, the mineral acids, and infufion of galls. From thefe experiments it appeared that the ink anciently employed was of the fame nature as at prefent: the letters turned of a reddi'h or yellowith brown with alkalies became nale, and were at length obliterated by the dilute mineral acids. The d:op of acid liquor, which
had been put upon a letter, changeal to a deep blue or green on the addition of phloginicated alkalies; with an infufion of galls, in fome cales the letters acyuired a deep tirge, in others a llight one. "Hence fays the doctor) it is evident, that one of the ingredients was iron, which there is no reafon to douta was joined with the vituiblic acid; and the colour of the more perfect MSS. which in fome was a deep black, and in others a purplifh black, togelier with the rellitution of thiat colour in thofe which had lolt it by the infufion of galls, fufficiently proved that another of the ingredients "as altringent matter, which from hitory appears to have been tiat of galls. No trace of a black pigment of any furt was difcovered; the drep of acid, which had completely extracted a letter, appearing of an uniform pale and ferruginous culour, without an atom of black powder, or other extraneous matter floating in it."

As this account differs very materially from the for mer extracted from Mr Atte's writings, fo the reafor given for the contimuance of the colour differs no lels. This, according to Dr Blagden, "feems to depend ver; much on a better preparation of the material upor which the writing was made, namely the farchment or vellam; the biackeft letters being senerally thofe which had funk into it the deepef. Sorre degree of effervefcence was commonly to be perceived when acids were in contact with the furface of thefe old vellums. I was led, however, to fufpect, that the ancient inks contained rather a lefs proportion of iron that the more modern; for, in general, the tinge of colour produced by the phlogifticated alkali in the acid laid upon them, feemed lefs deep; which, however, might depend in part upon the length of time they have been kept: and perhaps more gum was ufed in them, or they were wafhed over with fome kind of varniff, though not fuch as gave any glofs."

Among the feecimens with which our author was favoured by Mr Aftle, there was one which differed very materially from the reft. It was faid to be a manufript of the $15^{\text {th }}$ century: the letters were of full engrofling hand, angular without any fine frokes, broad, and very black. Nouse of the chemical folvents above mentioned feemed to produce any effect. Moft of them feemed rather to make the letters blacker, probably by cleaning the furface; and the acids, after having been rubbed ftrongly upon the letters, did not ftrike any deeper tinge with the phlogillicated alkali. Nothing could obliterate thefe but what took off part of the vellum; when frnall rolls of a dirty matter were to be perceived. "It is therefore unqueftionable (fays the doctor) that no iron was ufed in this ink; and, from its refiftance to the chemical folvents, as wall as a certain clotted appearance in the letters when examined clofely, and in fome places a flight degree of glofs, I have little doubt that they were formed of a footy or carbonaccous powder and oil, probably fomething like our prefent printers ink; and am not without fufpicion that they were actually printed."

On examining this MS. more fully, our author was convinced that it was really a part of a very ancient printed book. In confidering the necthods. of reftoring the legibility of decayed writinge, our author obferves, that perhaps one of the bell may be to join phlogilhicated alkali with the calk of ircn which remains; be-
caufe the precipitate formed by thele two fubitances greatiy exceed that of the iron alone. On this fubject Dr Biagden dilagrees with Mr Mergman; but to bring the matter to a tell, the following experiments were made.

1. The phloginieated alkali was rubbed in different quantities upon the bare writing. 'This, in general, profuced little effect; though, in a few infances, it gave a bluifl tinge to the letters, and increafed their intenfity; " probably (fays the doctor) where fomething of an acid nature had contributed to the diminution of their colour." 2. By adding, befides the alkali, a dilute mineral acid to the writing, our author found his expectations fully anfwered; the letters then changing quickly to a very deep and beautiful blue. It is but of little confequence whether the acid or phlogillicated alkali be frift added; though upon farther confideration the doctor inclined to begin with the alkali. The reafon is, that when the alkali is firl put on, the colour feems to fpread lefs, and thus not to hurt the legibility of the writing fo much as would otherwife be done. His method is to foread the alkali thin over the writing with a feather, then te.touch it as gently as polfible upon or nearly over the letters with the diluted acid by means of a feather or bit of fick cut to a blunt point. The moment that the acid liquor is applied, the letters turn to a fine blue, beyond comparifon ftronger than the original trace of the letter; and by applying a bit of blotting-paper to fuck up the fupertluous liquid, we may in a great meafure avoid the flaining of the parchment : for it is this, fuperfluous liquor which, abforbing part of the colouring matter from the letters, becones a dye to whatever it touches. Care ought, however, to be taken not to allow the blotting paper to come in contact with the letters, becaufe the colouring matter may eafily be rubbed off while foft and wet. Any one of the three mineral acids will anfwer the purpofe effectually. Dr Blagden commonly tifes the marine. But whichever of the three is ufed, it cught to be diluted fo far as not to be in danger of corroding the parchment; after which the degree of ftrength feems not to be a matter of great nicety.

Another method of reftoring the legibility of old writings is by wetting them with an infulion of galls in white wine: but this is fubject to the fame inconvenience with the former, and is befides lefs efficacious. The doctor is of opinion that the aeid of the galls by itfelf would be better for the purpofe than the infufion of the owhole fubftance of them; and he thinks allo that a preferable kind of phlogiticated alkali might be prepared either by purifying the common kind from iron as much as poffible, or by making ufe of the volatile alkali inftead of the fixed. Mr Aftle mentions a method of reftoring the legibility of decayed writings; but fays that it ought not to be hazarded left a fufpicion of deceit thould arile.
A method has been propofed of preventing ink from decaying by warhing over the paper to be written upon with the colouring inatter of Pruffian blue, which will
not deprave it in colour, or any other refpect. Sy writing upon it with common ink afterwards, a ground of Pruffian blue is formed under every flroke; and this remains itrong after the black has been ciecayed by the weather, or deltroyed by acids. 'Thus the ink will bear a larger proportion of vitriol at firlt, and will have the advantage of looking blacker when firt written.

Indian $I_{N \mathbf{r}}$, a valuable black for water-colours, brought from China and other parts of the Eaf Indies, fometimes in large rolls, but more commony in faall quadrangular cakes, and generally marked with Chinele characters. Dr Lewis, from experiments made on this fubtlance, hath thown that it is compofed of fine lamp-black and animal glue : and accordingly, for the preparation of it, he defires us to mix the lampblack with as much melted glue as is fufficient to give it a tenacity proper for being made into eakes; and thefe when dry, he tells us, anfivered as well as thofe imported from the Ealt Indies, both with regard to the colour and the freedom of working. I vory black, and other charcoal blacks, levigated to a great degree of finenefs, anfwered as well as the lamp-black; but in the itate in which ivory-black is commonly lold, it proved much too gritty, and feparated too haltily from the water.

Printing $I_{N \varepsilon}$, is totally different from Indian ink, or that made ufe of in writing. It is an oily compafition, of the confiftence of an ointment : the inethod of preparing it was long kept a fecret by thofe whofe employment it was to make jt, and who were intereiled in concealing it ; and even yet is but inperfectly known. The properties of good printing ink are, to work clean and eafly, without daubing the types, or tearing the paper; to have a fine black co. lour ; to warh eafily off the types; to dry foon; and to preferve its colour, without turning brown. This laft, which is a moft neceffary property, is effeetually obtained by fetting fire to the oil with which the printing ink is made for a few moments, and then extinguilhing it by covering the veffel (A). It is made to waih eafily off the types, by uiling foap as an ingredient; and its working clean depends on its having a proper degree of Atrength, which is gisen by a certain addition of rofin. A good deal, however, depents un the proportion of the ingredients to each other; for if too much foap is added, the ink will work very foul, and daub the types to a great degree. The fame thing will happen from uling too much black, at the fanse time that both the foap and black hinder the ink from drying ; while too much oil nua rolin tear the paper, and hinder it from walling off.-The following receipt has been found to makc printing ink of a tolerable good quality. "Take a Scots pint of lintfeed oil, and fet it over a pretty brik fire in an iron or copper veffel eapable of holding three or four times as much. When it boils flrongly, and emits a thick froke, kindle it with a piece of paper, and immediately take the ve!fel off the fire. Let the oil burn for about a minute; then extinguilh it by covering the veffel; after it has
grown
(A) This is mentioned by Dr Lewis in his Philofophical Commerce of Arts; but he feems not to have been acquainted with the method of giving it the other neceflary properties.

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 grown pretty cool, add two pounds of black rofin, and one pound of hard foap cut into thin lices. If the $0: 1$ is very hot when the foap is added, almolt the whole misture will run over the veliel. The minture is then to be fet again over the fire; and when the ingredients are thoroughly melted, a pound of lampblack, previoully put through a lawn fieve, is to be itisred into it. The whole ought then to be ground on a marble tlone, or in a lerigating mill.'Thougb the above receipt is greatly fuperior to any that hath been hitherto publithed, all of which are capitally deficjent in not mentioning the necef fary ingredients of rofin and foap; yet it mult be acknorledged, that ink made in this manner is inferior in point of colour, and is likewife more apt to daub the types and make an indittinct impreffion, than fuch as is prepared by fome of thofe who make the mainfacture of this commodity their employment; fo that cither a variation in the proportion of the ingredients, a nicety in the mixture, or fome additional inmredient, feems neceffary to bring it to the requifite perfection.

Ins for the rolling Prefs, is made of lintfeed oil burnt in the fame nomner as that for common printing ink, and then mised with Francfort-black, and finely ground. There are no certain proportions which can be deternined in this kind of ink; every workman adding oil or black to his ink as he thinks proper, in order to make it fuit his own tafte.-Some, however, mix a portion of common boiled oil, which has never been burnt: but this mult neceffarily be a bad practice, as fuch oil is apt to gu through the paper ; a fault very common in prints, efpecially if the paper is not rery thick. No foap is added; becaufe the ink is not cleared off from the copperplates with alkaline ley as in common printing, but with a brulh dipped in oil.

LKK is alfo an appellation given to any coloured liquor ufed in writing. Different kinds of thefe inks may te prepared by the directions given under the article Coluve-Making.

Sympatheric Iss, a liquor with which a perfon may write, and yet nothing appear on the paper after it is dry, till fome means are ufed, as holding the paper to the fire, rubbing it over with fome other liquor, \&c.

Thefe kinds of ink may be divided into ieven claffes, with refpect to the means ufed to make them vifible; viz. 1. Such as become vifible by palling another liquor over them, or by expoing them to the vapcur of that liquor. 2. Thofe that do not appear fo long as they are kept clofe, but foon become vifible on being expofed to the air. 3. Such as appear by ftrewing or fifting fome rery fine powder of any colour over them. 4. Thofe which become vilible by being expoled to the fire. 5. Such as become rifible by heat, but difappear again by cold or the moifure of the air. 6. Thofe which become vifible by being wetted with water. 7. Such as appear of various colours.

1. The firt clafs contains four kinds of ink, viz. folutions of lead, bifmuth, gold, and green vitriul, or lulfhate of iron. The firf two becume vifible by the contact of fulphureous liquids or fumes. For the firft, a folution of common fugar of lead in water anfwers very well. With this folution write with a clean pen, and the writing when dry will be totally invilable; but
if it be wetted with a folution of hepar fulyhuris, or of orpiment, diffolved by means of quicklume; or expofed to the firong varusrs of thefe folutions, the writing will appear of a brown colour, more or lefs deep according to the efrength of the fulphureous fune. By the fame means the folution of nitrate of bifunth will appear of a deep black.

The fympathetic ink prepared from gold depends on the property by which that metal precipitates from its folvent on the addition of a folution of tin. Write with a folution of gold in nitro-muriatic acid, and let the paper dry gently in the fhade; nothing will appear for the firft feven or eight hours. Dip a pencil in the folution of tin, and drawing it lightly over the inviible charafters, they will immediately appear, of a purple colour.

Charakters written with a folution of green vitriol, will likewife be invifible when the paper is dry ; but if wetted with an infufion of galls, they will immediately appear as if written with common ink. If, inftead of this infufion, a folution of an alkaline prufliate be ufed, the writing will appear of a deep blue.
II. To the fecond clafs belong the folutions of all thofe metals which are apt to attract oxygen from the air, fuch as lead, bifmuth, filver, \&c. The fympathetic ink of gold already mentioned belongs alfo to this clafs; for if the characters written with it are long expofed to the air, they become by degrees of a deep violet colour, nearly approaching to black. In like manner, characters written with a folution of nitrate of filver are invifible when newly dried, but being expofed to the fun, appear of a gray colour like llate. To this clafs allo belong folutions of fugar of lead, nitrates of copper and of mercury, acetate of iron, and muriate of tin. Each of thefe has a particular colour when expofed to the air; but they corrode the paper.
III. The third clafs of fympathetic inks contains fuch liquids as have fome kind of glutinous vifcofity, and at the fame time are long in drying; by which means, though the eye cannot difcern the characters written with them upon paper, the powders flrewed upon them immediately adhere, and thus make the writing become viible. Of this kind are urine, milk, the juices of fome regetables, weak folutions of the deliquefcent falts, \&c.
IV. This clafs, comprehending all thofe that become vifible by being expofed to the fire, is very extenfive, as it contains all thofe colourlefs liquids in which the matter difiolved is capable of being reduced, or of reducing the papcr, into a fort of charcoal by a limall heat. Sulphuric acid diluted with as much water as will prevent it from corroding the paper makes a good ink of this kind. Letters written with this fluid are invifible when dry, but initantiy on being held near the fire appear as black as if written with the finet ink. Juice of lemons or onions, a Solution of fal-ammoniac, green vitriol, \&c. anfwer the fome purpofe.
V. The fifth clafs compreliend, only a folution of muriate of cobalt; for she properties of which, fee CHEMISTRY, No 160 S. p. 627.
VI. This clafs comrrehends fuch inks as become vifible when characters written with them are wetted with water. They are made of all fuch fubttances as depofite a copious fediment when mised with water, difolving only imperfecty in that fuid. Of this kind

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Ink-Runes are dried alum, fugar of lead, vitriol, \&e. We have $\underbrace{\text { Inn. }}$ therefo:e only to write with a Atrong folution of thefe falts upon paper, and the characters will be iavitible when dry; but when we apply water, the fmall port:on of dricd falt camot angain be difiolved in the wa: ter. Hence the infoluble part becomes vifible on the paper, and hows the characters uritten in white, gray, brown, or any cther colour which the precipitate affume.,
VII. Characiers may be made to appear of a fine crimfon, purple, or yellow, by writing on paper with folution of muriate of tin, and then pailing over it a pencil dipt in a decoction of cochineal, Brazil-wood, log. wood, yellow woad, \&zc.

IAs Stones, a kind of fimall round flones, of a white, red, gray, yeilow, or black colour, containing a quantity of native natial vitriol, whence they derive the property of making ink, and from thence their name. They are almolt entirely foluble in water, and befides their other ingredients, contain alfo a portion of copper and zinc.

INI.AND, a mame for any part of a country at a ditance from the fea.
Inland Nazigation, See Cival and (Inland) NaMgetion.
INLAND Trade, that kind of trade carried on between the different parts of the fame kingdom, whether over land, or by means of inland navigation.
inlal'ing. See Vexebring, Mosaic, and Mar. guetey.
INLEASED, in our old writers, fignifies entangled os enfinared. It is ufed in the champion's oath.
INLISTING, in a military fenfe. See Listing.
INMIATES, fuch perfons as are admitted for their money, to live in the fane houfe or cottage with another man, in different rooms, but going in at the fame door; being $\mu$ fually fuppofed to be poor, and not able to maintain a whole houfe thenfelves. Thefe are inquirable in a court-let.-No owner or occupier of a cottage fhall fuffer any inmates therein, or more families than one to inhabir there, on pain of forieiting 10 s . per month to the lord of the leet.

INN, a place appointed for the entertainment and selief of travcllers.

Inns are licenfed and regulated by juftices of the neace, who oblige the landlord to enter into recognizances for keeping good order. If a perfon who keeps a common inn, refufes to receive a traveller into his houffe as a gueft, or to find him victuals and lodging on his tendering a reafonable price for them, he is li able to an action of damages, and may be indicted and fined at the king's fuit. The rates of all commodities fold by innkeepers, according to our ancient laws, may be afielfed: and innkeepers not felling their hay, vats, beans, \&c. and all manner of victuals, at reafonable prices, without taking any thing for liter, may be fined and imprifoned, \&c. by 21 Jac. I. C. 21 . Where an innkeeper harbours thieves, perfons of infamous character, or fufters any diforders in his houfe, or fets up a new inn where there is no need of one, to the hinderance of ancient and well governed inns, he is inditable and fineable: and by itatute, fuch inn may be fuppreffed. Action upon the cafe lies againt any innkecper, if a theft be committed on his guef by a fervant of the inn, or any other perfon not beVoL, XI. Part I.
longing to the gueft; though it is othcrwife where the gueth is not a traveiler, but one of the fame town or village, for there the inkeeper is not chargeable; nor is the mafter of a private tavern anfiwerable for a robbery commitied on his guelt : it is faid, that even though the travelling guelt does not deliver his goods, \&\&. into the innkeeper's poffofion, yet if they are Aolen, he is chargeable. An innkeeper is not anfwerable for auy thing out of his inn, but only for fucl: as are within it ; yct, where he of his oun accord puts the guelts horic to grafs, and the horle is itolen, he is anfwerable, he not hasing the guell's orders for putting fuch horfe to grafs. The innkeeper may juftify the Atopping of the horle, or other thing of his gucit, for his reckoning, ard may retain the fame till it be paid. Where a perlon brings his horfe to an inn, and leaves him in the flable, the imkceper may detain him till fuch time as the owner pays for his keeping: and if the horfe eats out as much as he is worth, after a reafonable appraifement made, he may fell the horfe and pay himfelf: but when a gueft brings leveral horfes to an inn, and afterwards takes them all away except one, this borle fo left may not be fold for payment of the debt for the others; for every horfe is to be fold, on!y to make fatisfacion for what is due for his own meat.

Ins. Our colleges of muricipal or common lars profefiors and Itudents, are called inns: the old Englith word for houles of noblemen, bihops, and others of extraordinary note, being of the fame lignification mith the French word hosicts.

Isws of Court are fo called, as fome think, becauie the lludents there are to ferve and attend the courts of judicature; or elfe, becaule anciently thefe coileges received none but the fons of noblemen, and better fort of gentlemen, who were bere to be qualified to ferve the king in his court ; as Fortefcue affirms. And, in his time, he fays, there were about 2000 fudents in the inns of court and chancery, all of whom were filii nobi. lium, or gentlemen born. But this culiom has isradually fallen into difure; fo that in the reign of Queen Elizabeth, Sir Edward Coke does not reckon above 1000 ftudents, and the number at prefent is very con-' fiderably lets; for which Judge Blach ltone affigns the following reafons. 1. Beciule the inns of chancery, being now almott totally filled by the inferior branches of the profellion, are neither commodious nor proper for the refort of gentlemen of any rank or figure; fo that there are very rately any young fludents entered at the inns of chancery. 2. Becaufe in the inns of court all forts of regimen and academical fuperintendance, either with regard to morals or thudies, are found impracticable, and therefore entirely neglected. Lafly, becaufe perfons of birth and fortune, alter ha. ving finifhed their ufual courfes at the univerfities, have feldom leifure or refolution fufficient to enter upon a new feheme of fludy at a nerw place of inflruction; wherefore few gentlemen now refort to the inns of court, but fuch for whom the knowledge of practice is ablolutcly neceflary in fuch as are intended for the pro-* felfion.

Our inns of court, jufly famed for the production of men of learning in the law, are governed by maAters, principals, benchers, flewards, and other officers ; and have public halls for exercifes, readings, \&c.

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in. which the itudents ase obligect to attend and perturn
In:ufaler for a cettain number of years, before they can be admitted to phead at the bar. Thefe focieties have not,
hosever, any judicial authority over their members; but initead of this they have certain orders among themfelver, which have by confent the force of laws. For dighter offences perfons are only excommoned, or put cut of commons; for greater, they lofe their chambers, and are expelled the college; and when once expelied out of one fociety, they are never received by any of the others. The gentlemen in thefe focietics may be divided into benchers, outer-barriliers, iuner-barrifters, and fudents.

The four principal inns of court, are the Inner Temple and Middle Temple, heretofore the dwelling of the Knights Templars, purchafed by fome profeffors of the common law about $3=0$ years ago; Lincoln's Inn and Gray's Inn, anciently belonging to the earls of Lincoln and Gray. The other inns are the two Serjeants Inns.

İNS of Cliancery were probably fo called, becaufe anciently inhabited by fuch clerks as chietly ftudied the forming of writs, which regularly belonged to the curfitors, who are officers of chancery.

The firt of thefe is Thavies Inn, begun in the reign of Edward 1II. and fince purchafed by the fociety of Lincoln's Inn. Befide this, we have New Inn, Symond's Inn, Clement's In:a, Cliford's Inn, anciently the houfe of the Lord Clifford; Staple Inn, belonging to the merchants of the ftaple ; Lion's Inn, anciently a common inis with the fign of the lion; Furnival's Inn, and Bernard's Inn.

Thefe were heretofore preparatory colleges for younger fludents; and many were entered here, before they were admitted into the inns of court. Now they are mo:tly taken up by attorneys, folicitors, \&c.

They all belong to fome of the inns of court, who formerly ufed to fend yearly fome of their barrifters to read to them.

INNATE ideas, thofe fuppofed to be flamped on the mind, from the firt moraent of its exiffence, and which it conflantly brings into the world with it : a doctrine which Mr Locke has taken great pains to refute.
inNERKEITHING. See Inverkeithing.
inNerlochy. Sce Inverlochy and FortWilliam.

## invis. See Inch.

inNisclochran, or the Stoney Island, an inand in Lough Ree, in the river Shannon, between the counties of Wellmeath and Rofommon, at which place a monaltery was founded by St Dermond, about the beginning of the 6th century.

INNISFAIL (derived from Inis Bheal, that is, "the inland of Bleal"), one of the ancient names of Ireland, fo denominated from Eeal, the principal object of adoration among the ancient inhabitants of the Britifh illes. Innisfail has been erroneouly tranflated the IJlund of Definy, as Bheal was fometimes taken for Fate or Providence.

INN1SFALLEN, an ifland in the lake of Killarney, in the county of Kerry and province of Muniter: in it are the ruins of a very ancient religious houfe, founded by St Finian, the patron faint of thefe parts, and to him the cathedral of Aghadoe is alfo dedicated.

The retuains of this abbey are very extenfice, its fitua-Inaisfill tion romantic and retired. Upon tle diffolution of religious luanes, the poffeflions of this abbey were grant ed to Captain Robert Collam. The illand contains about 12 acres, is agreeably wooded, and has a number of fruit-trees. St Finian llourihed about the middle of the 6 th century; he was furnamed in Irifh Lobhar, his father's name was Conail the forr of Efchod; defcended from Kian the fon of Alild, king of Munfter. There was formerly a chronicle kept in this abbey, which is frequently cited by Sir J. Ware and other antiquaries under the title of the Annals of Innisfallen. They contain a flietch of univerfal hiftory, from the creation of the world to the year 430 or thereabouts, but from thence the annalift has amply enough profecuted the affairs of Ireland down to his own times. He lived to the year 1215 . Sir J. Ware had a copy of them, whereof there is an imperfect tranfcript among the MSS. of the library of Trinity-college, Dublin. They were continued by another hand to the year 1320. Billop Nichollon, in his Irifh hiftorical liorary, informs us, that the duke of Chandos had a complete copy of them down to 1320 in his pofichion. Thefe annals tell us, that in the year 1180, the abbey, which had at that time all the gold and filver and richeft goods of the whole country depofited in it, as the place of greatell fecurity, was plundered by Mildwin fon of Daniel O'Du. noghoe, as was alfo the church of Ardfert, and many perfons rere flain in the rery cemetery $\mathrm{b}_{\ddot{\prime},}$ the M'Cartys; but God, as it is faid in this chronicle, punifhad this impiety by the untimely end of fome of the authors of $i t$.

INNISHANNON, a town in the county of Cork and province of Munfter, 13t miles from Dublin; fituated on the river Bandon, and fix miles from Kinfale. The river is navigable to Cullier's quay, about half a mile below the place. On the weft dide of the town is a ftrong bridge. This place was formerly walled, and of fome note, as appears by the foundations of feveral cafles and large buildings difcovered in it. The town of Innilhannon, together with its ferry, were granted to Philip de Barry by Henry V. by letters patent, anno $14 i 2$.

INNISHIRKAN, an ifland fituated between Cape Clear ifland and Baltimore bay, in the county of Cork and province of Muntter. In this ifland ftood the catle of Dunclong, poffeifed by the O'Drifcolls, which was furrendered after the defeat of the Spaniards to Captain Hervey on 23d Feb. 1602 . There was afterwards a regular fortification erected on part of the ifland, which was garrifoned in Queen Anne's time, but it has been for feveral years difmantled; about a mile to the fouth are the remains of an ancient abbey, founded 1460, for Francifans, by Florence O'Dififoll. This illand has very good land, and is vaftly preferabie to that of Cape Clear illand. To the north-ivelt of Innifhirkan illand lies Hare ifland, a large fruitful fpot; and near it are four fmall iffands called the Scliemes: alfo along the coalt, in the following order from eaft to weft, are Horfe iffand, containing 100 acres; Caftle ifland, cortaining 119 acres; Long iiland, containing 316 acres; and welt of all thefe is a fmall fpot called Goat illand. All thefe inlands, ogether with the adjacent coaft, produce large crops of fine Englith barley.

LNNISKILLING
aikikirg INNISǨILLING, a borough to:v? of Ireland, in II the county of Fermanagh and proviace of Uliter, lying between three lakes. It is about 24 miles eall of Bal. lylhannon, and 79 north-welt of Dublin, this place giv. ing title of vifcount to the family of Cole. Its inhabitants diftinguined themfelves in feveral confiderable engagements in the wars of Ireland at the revolution, out of which a regiment of dragoons, bearing the title of the Innikilleners, was motlly formed. They form the 6th reginent of dragoons in the Britilh army.

INNOCENT'S D:sy, a fettival of the Chrilian church, obferved on Uecember 28. in memory of the matlacre of the innocent children by the command of Herod king of Judæa. Sce Fosse's Chrif; and Jews, $\mathrm{N}^{3} 24$ par. ult. The Greek church in their kalendar, and the Abyflinians of Ethiopia in their offices, commemorate 14,000 infants on this occafion.

INNUENDO (of innwo, "I nod or beckon"), is a ward frequently ufed in writs, declarations, and pleadings, to afcertain a perfon or thing which was named, but left doubtful, before: as, he (innuerdo the plaintiff) did fo and fo: mention being before made of another perfon.-In common converfation or writing, an innuendo denotes an oblique hint or diftant reference, in contradifinction to a direct and politive charge.

INO, in fabulous hiftory, a daughter of Cadmus and H.rmonia, who nurfed Bacchus. She married Athamasking of Thebes, after he had divorced Nephele, by whom he had two children Phrysus and Helle. Ino berame mother of Melicerta and Learchus; and foon conceived an implacable hatred againtt the children of Nephele, becaufe they were to afcend the throne in pre erence to her own. Phrysus and Helle were informed of Ino's machinations, and they efcaped to Colchis on a golden ram. Juno, jealous of Ino's profperity, refolved to difturb her peace; and more particulatly becaufe fhe was of the delcendants of her greateft enemy, Venus. Tiiphone ras fent by order of Juno to the houfe of $A$ thamas; and the filled the whole palace with fuch fury, that Athamas taking Ino to be a lionefs and her children whe'ps, purfued her and dafhed her fon l.earchus againft a wall. Ino efcaped from the fury of her hufband; and from a high rock the threw herfelf into the fea with Melicerta in her arms. The gods pitied her fate; and Neptune made her a fea deity, which was afterwards called Leucothoe. Melicerta became allo a fea god, known by the name of Palemon.

INOA, fentivals in memory of Ino, celcbrat ad yearly with forts and facrifices at Corinth. An anniverfary facrifice was alfo offered to Ino at Megara, where fle was firt worlhipped under the name of Leucothoe.Another in Laconia, in honour of the fame. It was ufucl at the celebration to throw cakes of flour into a pond, which if they funk were prefages of profperity, but if they fram on the furface of the waters they were inaufpicious and very unlucky.

INOCARPUS, a genus of plants belonging to the decandria clafs. See Botany Index.

INOCULATION, or BUDDING, in Gardening, is commonly practifed upon all forts of ftone fruit; as nectarines, peaches, apricots, plums, cherrics, as alfo upon oranges and jafmines: and indeed this is preferable to any fort of grafting for mot forts of fruit. For the mehod of performing it, fee Gardening Index.
fnocumtion, in a phyfical fenfe, is ufed for the Inoculatrantplantation of dificmpers from one fubject to an- tion. other, particularly for the engrafment of the fmallpos; which, though of ancient ule in the ealtorn countries, is but a modern prasice among us, at leatt uader the div rection of art.

It is well obferved by the baron Diniflale, that accident hath furnithed the art of medicine with many va luable hints, and fome of its greateft improvements lave been received from the hands of ignorance and barbarifm. This truth is remarkably exemplified in the prac. tice of inoculation of the fmallpox: but to the honour of the Britilh phyficians, they meafured not the value of this pracite by the meannefs of its origin, but by its real importance and utility; they patronifed a barbarous difoovery with no lefs zeal and affection than if it had been their own. Indeed the whole nation might be faid to have adopted the practice; for the greateft encouraged it by becoming evamples, and the uifeit were determined by the general event of the method.

The time and place in which the art of inoculating for the frallpos was firt formed, are equally unknown. Accident probably gave rife to it. Pylarini fays, that among the Turks it was not attended to except amongit the meaner fort. Dr Ruffel informs us in the Philofophical Tranfactions, rol. lviii. p. I42. that no mention is made of it by any of the ancient Arabian medical writers that are known in Europe; and the phyficians who are natives in and about Arabia affert, that nothing is to be found regarding it in any of thofe of a more modern date. He farther fays, that he engaged fonse of his learned Turkith friends to make inquiry; but they did not difcover any thing on this fubject of inoculation either in the writings of phyficians, hiftorians, or poets. Until the beginning of the 18 th century, all the accounts we have of inoculating the fmallpox are merely traditional. The filence on this fubject, obferved amongt writers in the countries where the practice obtained, Dr Ruffel fuppofes, with great probability, to be owing to the phyficians there never countenancing or engaging in it. It is allo remarkable, that before Pylarini's letter to the Royal Society in 1701, nor yet for feveral years after, this practice is not noticed by any of the moll inquilitive travellers. On this Dr Ruffel very juftly obferves, that cultoms, the moft common in diftant countries, are often the leaft apt to attract the obfervation of travellers, who, engaged in other purfuits, muft be indebted to accident for the knowledge of fuch things as the natives feldom talk of, upon the belief that they are known to all the world.

The firlt accounts we have in the learned world concersing inoculation, are from two Italian phyficians, viz. Pylarini and Timoni, whofe letters on the fubject may be feen in the Phil. Tranf. abridged, vol. v p. 370 , \&c. The firf is dated A.D. 170 ; the next is dated A. D. 1753 . Whether our inquiries are extended abroad or confined to our own country, inoculation hath been practifed under one mode or other time immemorial ; in Great Britain and its adjacent illes we have well authenticated accounts, estending farther backward than any from the continent. Dr Williams of Haver. fordweft, who wrote upon inoculation in $\mathbf{8} 725$. proves, that it had been prectifed in Wales, thoogh in a form fomewhat different, time out of mind. Mr Wright, a L 12
furgeon

## I N O

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furgeon in the fame place, fays, that buying the fmallpox is bciti: a common practice, and of long fanding in that neighbaurhood. He fays, that in Pembrnkethire there are two large villages near the harbour of Mulford, more famous for this cullom than any other, viz. St lihmael's and Marloes. 'The old inhabitants of thefe vilIages fay, that it liath been a common practice; and that one William Allen of St lhmael's, who in 1722 was 90 years of age, declared to fome perfons of good fenfe and integrity, that this prattice was ufed all his time; that he well remembered his mother telling him, that it was a common pratice all her time, and that fhe got the fmalloos that way; fo that at leail we go back 160 years or more.

In the Highlands of Scotland and fome of the adjacent illes, Dr Alexander Momo fenior informs us, that the cuftom through ages paft hath been, to put their childsen to bed with thofe who laboured under a favourable imallpos, and to tie worited threads about their children's wrifts, after having drawn them through variolous puttules.

According to the sefult of Dr Ruffel's inguiries, the Arabians affert, that the inoc:alation of the fmallpox has been the commen cultom of their anceflers, and that they have no doubt of its being as ancient as the difeafe itfelf. It is remarkable, that buying the fmallpox is the name univerfally applied in all countries to the method of frocuring the difeale: it is true that there are other terms; but in Wales and Arahia, as well as many othor countries, this is the ufual appellation. From the famenefs of the name, and the little diverfity obfervable in the manner of performing the operation, it is probable that the practice of inoculation in thele countries was originally derived from the fame fource. From its extenfive fpread, it is probably of great antiquity too.

In the year $1 / 17$, Lady Mary Wortley Montague, wife of the Englifh ambaffador at Conftantinople, had her fon inoculated there at the age of fix years; he had but few puftulcs, and foon recorered. In Aprilip2r, inoculation was fuccefsfally tried on feven condemned criminals in London, by permiffion of his majelty. In 1722, Lady Mary Wortley Montague had a daughter of fix years old inoculated in this ifland; foon after which, the children of the royal family that had not had the fmallpor were innculated with fuccefs; then followed fone of the nobility, and the practice foon prevailed. And here we date the commencement of inoculation under the direction of art.

From the example of the royal family in England, the practice was adopted in Germany, particularly in Hanover, and its adjacent countries.

After Mr Maitland had fucceeded with thofe he had inoculsted in and about London, he introduced the pradice into Scotland in the year 1726.

Siseden foon followed the example of the Britilh. Ruffa lately engaged one of our principal promoters and improvers of this art. And now there are nct many ccuntrics that do not more or lefs practife it.

Diffirent Mones of InocvLatio\%. The practice of inoculation having obtained in every part of the world, it may be grateful, at leaf to curiofity, to have a general account of the different modes that are and have been adopted in that practice.

Inoculation with the blood of variolous patients hath
been tried without effect the variolous matter only produces the variolous difeafe.

The application of the variolous matter takes place in a fenfible part only; the activity of the virus is fuch, that the finalleft atom, though imperceptible to any of our fenfes, conveys the difeafe as well as the largelt quantity. Hence the moft obvious method is the prick of a needle or the point of a lancet dipped in the mat. ter of a variolous puitule.

Cotton or thread is ufed, that is previouty rubbed with powdered variolous lcabs; this thread is drawn with a needle through the cutis, tut not left in. This is the nothod in fome parts of the Eall Indies. The Indians pafs the thread on the outfide of the hand, between any of the fingers, or between the fore finger and thumb. The Thellailan women inoculate in the forehead and chin.

Some abrade the fcarf-R-in, and rub in the powdered dry fabs which fall from the pultules of patients with ine fmallpox.

Manv of the Greek wamen make an oblioue puncture with a needle, on the middle of the top of the forehead, on each cheek, the chin, each metacarpus, and each metatarfus; then drop in each a little of the pus juft taken warm from a patient, and brought in a fervant's bofom. Others in Greece make feveral little wounds with a needle in one, two, or more places, in the lkin , till fome drops of blood enfue; then the operator pours a drop of warm pus frelh from a puftule, and mises it with the blood as it iflues out; then the wound is covered by fome with a bandage, by others with half a walnut thell placed with its concave fide over each orifice.

The Chinefe convey a pellet of variolated cotton, with the addition of a little mulk, into the moftrils of the patient ; they collcet dry pultules, and keep them in a porcelain bottle well corked; and when they inoculate, they mix a grain of muik with three or four grains of the dery fcales, and roll them in cotton. This method may be called inodoration.

About Bengal, in the Eait Indies, the perfon who intends to be inoculated, having found a houle where there is a good fort of the fmallpow, goes to the bed of the fick perfon, if he is old enough; or if a child, to one of his relations, and fpeaks to him as follors: "I am come to buy the fmallpox." The anfwer is, "Buy if you pleale." A lum of money is accordingly given, and one, three, or four puftules, for the number muft always be odd, and not exceeding five, extracted whole, and full of matter. "Thefe are immed'ately rubbed on the fkin of the outfide of the hand between the forefinger and the thumb; and this furfices to produce the difeafe. The fame cultom obtains in Algiers, Tunis, Tripoli, and other countries.

Very fimilar to the cultom among the people about Bengal, \&c. is that in Arabia, where on fome flelhy part they make feveral punctures with a needle $\mathrm{im}_{1}$ brued in variolous matter, taken from a pultule of a favourable kind. Here they buy the fmallpox too, as follows : the child to be inoculated carries a ferr raifins, dates, finga:-plums, or fuch like; and thowing thera to the child from whom the matter is to be taken, afks how many pocks he will give in exchange? The bargain being made, they proceed to the operation; but this buying, though liill continued, is not thourht

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ccula. neceffary to the fuccefs of the operation. The Arabs
infert the matter between the fore-finger and thumb on the outide of the hand.

The Georgians infert the matter on the fore-arm.
The Armenians introduce the matter on the two thighs. In Wales the practice may be termed infriction of the fmallpos. There fome of the dry pultules are procured by purchafe, and are rubbed hard upon the nalied arm or leg.

The practice in fome places is to prick the $\mathbb{R}$ in between fome of the fingers by neans of two fmall needles joined to one another; and after having rubbed a little of the matter on the fpot, a circle is made by raeans of feveral punctures oì riee bignefs of a common puftule, and matter is again rubbed over it. The operation is finilied by dretung the wand with lint.-Another cultom is to inix a litile of the variolous matter with fugar, end give it to be drank in any agreeable liquar.

Incitions have been made in the arms and legs, and thread, cotton, or lint, previoully dipped in the variolous matter, was lodged in them. The practice of furse is to bathe the feet in warm water, and then fecure lint dipped in the varivlous matter on the inttep, or other part of the foot, where the fk in is thin. Others apply a fmall bliftering plafter; and when the foarf $\mathbb{k}$ in is elevated and aipped ont, the variolous matter is applied to the furface of the true $\mathbb{f k i n}$, and confined there by a little lint or plaiter. Scratching the thin with a pir or needle, and then rubbing the part with lint, previoully dipped in variolous matter, is the cuftom in fome places.

In the Highlands of Scotland they rub fome part of the flin with frelh matter, or dio worted in variolows matter, and tie it about the children's wriks. They obferve, that if feeth matter is applied a few days fuccelfively, the infection is more certain than by one application.

Having thus given the hittory of inoculation for he fmailpor, which not many years ago was juitly regarded as one of the greatell difcoveries which had been made for the benefit of mankind, and would tlill be regarded as fuch had it not given place to one till more valuable and important, the vaccine inoculation or coupax, which now promifes to banith the finallpox from the world. For an account of this, fee VacciNsrros: It would be quite unneceflary to enter into the setail of the advantages to be derived from inoculation fur the fmallpox, and the methods of performing or preparing for it formerly practifed. But, as a curious part of the hiftory of this practice, we thall jult barely mention fume of the objections which have been urged agaisilt it.

It has been Caid that inocularion for the fmallpox is unlauful; that it is bringing a diffemper on ourfelves, and thus uforping the facred prerogative of Gud; that the decrees of God have fised the commition of every difale, and our precautions cannot prevent what he hath determined; that we fhould not do evil that good may come ; that the patient may die, and then his laft moments are difreifed, and the future reflections of his friends are grievous; that fear is a dangerous paffion in the fmallpox, but inoculation increafes the caufes of fear, by leffening our faith and irult in God; that ino-
culation does not exempt from future infection; that Inordinate other difeafes are communicated with the matter of the fimallpors by inoculating it ; that perhaps the difeafe may never attack in the natural way; that it requires much thought to know what we thould do with regard to inoculation; that it endangers others, and that the practice of inoculation comes from the devil.

INORDINATE pronortion. Sce Proportion, Inordinate.

INOSCULATION, in Sinatomy, the fame with Anastomosis.

INPROMPTU, or Imprompte. Sec Inpromptu. INQUESI', in Scuts Law, the fanue with Jury.
1NXUISITION, in the church of Rome, a tribunal in feveral Roman Catholic countries, erected by the popes for the examination and punithnent of heretics.
'This court was fourded in the I 2 th century by Father Dominic and his followers, who were fent by Pope Imocent III. with orders to excite the Catholic princes and pcople to extirpate heretics, to fearch into their number and quality, and to tranlmit a faithful account thereef to Rome. Hence they were called inquifuors; and this gave birth to the formidable tribunal of the inquifition, which was reccived in all Italy and the dominiuns of Spain, except the kingdom of Naples and the Low Countries.
'This diabolical tribunal takes cognizance of herefy, Judaifn, Mahometanifn, ludomy, and polygamy; and the people ftand in fo much fear of it, that parents deliver up their children, hufbands their wives, and mafters their fervants, to its othicers, without daring in the laalt to mumnur. The prifoners are kept for a long time, till they themfelves turn their own accufers, and declare the caufe of their imprifonment; for they are neither told their crime nor confronted sith witneffes. As foon as they are imprifoned, their friends go into mourning, and fpeak of them as dead, not daring to folicit their pardon, left they thould be brought in as accomplices. When there is no hadow of proof againf the pretended criminal, he is difcharged, after fuffering the molt cruel tortures, a tedious and dreadful imprifunment, and the lofs of the greatell pari of his effects. The fentence againtt the prifoners is pronounced publicly, and with extraordinary folemnity. In Portugal, they ereet a theatre capable of holding 3000 perfons; in which they place a rich altar, and raife feats on each lide in the form of an amphitheatre. There the prifoners are placed; and over againtl them is a ligh chair, whither they are called, one by one, to hear their doom, from one of the inquifitors.

Thefe unhappy people know what they are to fuffer by the clothes they wear that day. Thufe who appear in their own clothes are difcharged upon payment of a fine; thofe who have a fanto benito, or flrait yellow coat without lleeves, charged with $\mathrm{St}_{\mathrm{t}}$ Andrew's czofs, have their lives, but forfeit all their effects: thofe who have the refcmblance of flames made of red ferge, fewed upon their fanto benito, without any crofs, are pardoned, but threatened to be burnt if ever they relaple: but thofe who, belides thefe llames, lave on their fanto benito their own picture, furrounded with tigures of devils, are condemned to expire in the flanes. The inquifiturs, who are eccicinatics, do not promounce the fentence of death;
naicribed but form and read an af, in which they fay, that II the criminal being convitted of fuch a crime, by his oun confelfion, is with much reluctance delivered to the fecular power to be punified according to his demerits: and this writing they give to the feven judges who attend at the right fide of the altar, who immediately pals fentence. For the conclufion of this horrid fcene, fee Aet of Failh.

INSCRIBED, in Geometry. A figure is faid to be infcribed in another, when all its angles touch the fide or planes of the other figure.

INSCRIPTION, a title or writing affixed to any thing, to give fome farther knowledge of it, or to tranfmit lome important truth to pofterity.

Antiquaries are very curious in examining ancient infcriptions found on flones and other monuments of antiquity. Sanshoniathon, contemporary, as it is faid, with Gideon, drew moft of the memoirs whereof his biftory is compofed from inferiptions which he found in temples and on columns, both among the Heathens and the Hebrews.

It appears, indeed, that the ancients engraved upon pillars the principles of fciences, as well as the hiitory of the world. Thofe mentioned by Herodotus fhow, that this was the firft way of influcting people, and of tranfmitting hiftories and fciences to pofterity. This is conermed by Plato in his Hippias; wherein he fays, that Pififtratus engraved on flone-pillars precepts ufeful for hurbandmen. Pliny affures us, that the firit public monuments were made of plates of lead; and that the treaties of confederacy concluded between the Romans and the Jews were written upan plates of brafs; that (fays he) the Jews might have fomething to put them in mind of the peace and confederacy concluded with the Romans. The Greeks and Romans were great dealers in infcriptions, and were extremely fond of being mentioned in them: and hence it is, that we find fo many in thofe countries of ancient learning, that large volumes have been compoed, as the colleclion of Gruter, \&ic. Since Gruter's collestion, Th. Reinefus bas compiled another huge volume of inferiptions. M. Fabretty publinhed another volume at Rome in 1660 , wherein he has corrected abundance of errors which had efcaped Gruter, Reinefius, and other antiquaries, \&c. and added a great number of infcriptions omitted by them.-Sincc all thefe, Groevius has publithed a complete collection of inferiptions, in three vols. folio.

INSCR UTABLE, Uxsearchabie, in Theology, is ufually underfood of the fecrets of Providence, and the judgments of God, which cannot be found out, or into which human reafon cannot penetrate.

Academy of Inscriptions. See Academy.
INSECTS, insecta, in Natural Hifory, a fmaller fort of animals, commonly fulpofed to be exfanguious; and ditinguifhed by certain incifures, cuttings, or indentings in their todies. The word is originally Latin, formed of $i \boldsymbol{i}$, and feco "I cut;" the reafon of which is, that in fome of this tribe, as ants, the body fecmis to be cut or divided into two; or becaule the lodies of many, as worms, caterpillars, \&c. are compofed of differcut circles, or rings, which are a fort of incifure. See Entomology.
inoxisus INSECJ: Means of dehroying them, or fie?etive lict lacrent. Tice follorints remedies we
find collected in the Gentleman's Magazine for October 1790.-Of thofe fubltances which have been generally obfersed to be efficacious in driving awny or in deilroying infects, mercury, and its various preparations, may be reckoned one of the moft generally uletul. Sulphur is alfo ufeful. Oils of all kinds have been often and defervedly recommended. Tobacco is not lefs remarkable for its utility. Oi the application of thefe in order.

1. Mercury is known to kill or drive away lice from the human body; and it may probably be of equal efficacy in ridding other animals of their infects. For inflance, theep having a fmall quantity of mercurial ointment rubbed on their fkins, on the fides, between the fore-legs and the beriy, it may kill or drive away the infect peculiar to them. Sulphur is recommended to be added to the mercurial ointment. Thus not only the infect peculiar to them, but alfo the fcab, may be cured: See the Tranfactions of the Society for the Encouragement of Arts, London, vol. vii. viii. p. 90. In the Tranfactions of the fame fociety, vol. v. vi. p. 59. Mr Ailway directed that, in the winter, the walls, frames, \&c. of his green and hot-houfes thould be well walhed with the following mixture: Take of corrofive fubiimate mercury four ounces, and diffolve it in two gallons of water. Thefe houfes had been greatly infefted with red fpiders and ants. After having been walhed with the above mixture, neither were to be feen next fummer. This wafh may be ufed on old garden-walls, and to the roots of fruit-trees infefled with infects, if made weaker. It may deftroy the tender leaves of plants, though not the rocts. This wafh will effectually deftroy that difagreeable infeet the bug, and all other infects of a tender cuticle ; and it will not in the leaf hurt the colour of bed-furniture or hangings. Care muft be taken, that the wath be applied into every crevice or folding of the furniture with a painter's brufh. It will fometimes be necellary to repeat the wafh, as fome of the ova of bugs may remain concealed, notwithitanding the utmolt care.

Some of the Weft India iflands were much infefted with large ants, which greatly hurt the fagar-canes. The remedy was, to diffolve corrofive fublimate mercury in rum, in the proportion of two drams to a pint of firits. This folution was poured on dry fowdered fugar; and when the fugar was dried, it was laid in the paths of the ants. They ate it, and were deflroyed. Might not this practice be imitated, by laying fugar thaus prepared on paper or pieces of thin boards near the roots of fruit-trees infefted by infects, efpecially when the fruit is ripening? The papers or boards might be taken in during the night, or when it rained. The fugar mould be coloured with indigo, or other fubfance, thereby to mark it as a fubitance to be avoided by curious idlers.
2. We are informed that a perfon in Philadelphia employed brimftone in the following manner. Having cleared all round the roots of trees infelted with caterpillars or cther infcets, be itrewed fome flour of brimfoone round the roots, and covered it with a thin fprinkling of fine mould, that it might not be blown away by the wind, yet fo that the fuit might operate through, and caufe the brimfone to fumigatc. "Thus he deftroyed the caterpillars. One pound he found fufficient for 200 trecs. In that hot climate the fun

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licis. may perhaps have that offest; but it carcely will in this. İe aifo employed fulphur in the following manner to drise mects from tall trecs. He fplit the end of a pole, and put in the llit fome matches, fet them on fire, and held them under the parts of the trees chietly afiected. A pole thus armed, he found, would anfwer for three or four trees. Brimilone thus mixed with damp ftraw, and fet on fire, for inflance, in hopground infefted with the fly, might be of ufe to drive away the fly.

The itch is fuppofed to proceed from a very fmall infect which netlles under the $\mathbb{K k i n}$, and proceeds no farther into the habit; and is therefore attended with no dangerous confequences. Brimfone made into an ointment with hogs-lard is a furc remedy.

Sheep are liable to an eruption on the flin, known by the name of the fcab. The brimftone, when added to the mercurial ointment recommended for that diforder in the Tranfactions of the Society for the Encouragement of Arts, vol. vii. p. 90. might perhaps render the apolication more efficacious and lefs dangerous.
3. The natives of hot countries are tanght by experience, that an unctuous covering on their bodies prevents the bites of mufquitoes and all gnats. The white inhabitants in fuch countries are not fulficiently careful in preventing the leaft flagnant water mear their dwellings, in which the muffuitoes are bred; ewen in the walle water thrown out they are produced. Dr Franklin, by a careful attention to this circumitance, guarded his family in Philadelphia from fuch infects: one day feeing a number of mufquitoes in his library, he found on inquiry, that one of his fersants had taken the coser off a tub placed near his window for receiving rain-water. On fuch an occafion the remedy is eafy, viz. fluting the room up for the day, fo that the mufquitoes cannot come at any water, in which time they die. Though this caution may feem trifing to us who live in a mild climate, it is far otherwife in hot countries.

Oil being known to be moft efficacious in deftroying infects, may not the ufe of it be extended to the dettruetion of worms in the howels of hotles, where they may occalion the violent pain they feem fometimes to fuffer? If the horfe was for fome time kept fafting, and a large quantity of oil, fuppofe a pint, was given, if worms are the caufe, the oil may in that cafe kill them.

Flowers, leaves, and fruit, on plants, are known to be devoured by caterpillars. Thefe are detroyed by oils, which clofe the lateral pores by which they breathe. For this purpofe it is adviled, that, on the approach of fpring, a cloth dipped in train oil be laid on fuch parts of the tree in which there is the leaft appearance of them.

We are informed in the Memoirs of the Society of Agriculture at Paris, that oil of turpentine, when applied to animals which were covered with infects, deftroyed the infects without hurting the anmal. The author tried it on feveral trees, mixed with fine earth fo as to incorporate them well, then adding water, fill ftirring them carefully till the whole was brought to fome degree of Guidity. In this mixture he dipped branches of fruit trees on which there were infects, and hereby deftroyed not only the eggs but alfo the infeets, without hurting the leaves. This compolition may be
got off by wainiug, or the firt i.eary flower. From Incens. thefe experiments the author thinis, that oil of twpen. tinc may with cqual effacacy be cmployed fur killing various hinds of lice on dumeltic animals.

We are informed, in the 'Iranfaftions of the Society for the Encouragement of Arts, vol. v. p. 4j, that Mr Winter, among otizer experiments on turnip-\&eed, fleeped the feed 24 hours in a fufficient quantity of train vil. He then drained the oil from the feed, which he mixed with a quantity of fine fifted earth, and immediately fowed it in drills. When the plants began to appear on the furface, the ground was fown with foot. He found that feed feeped in lintleed oil anfwered equally well. The turnips the leat injured by the fly were thofe that giew from feed Aceped as above, which grew foluxuriantly as to produce rough leaves feveral days prior to the moft flourifing of any of his other experiments, and were the better enabled to withitand the tly's attack. The leaves of thefe turnips were of a darker green, and appeared twice as thick in bulk and luxuriancy than the other turnips, and were a confiderable dcal larger. The feed was drilled an inch and a half deep, and at.a foot difance in the rows. 'Train oil is apt to kill the leaves of plants which have been injured by infects, but lintfeed oil has not that effcet, though equally deffructive to the infects. The train oil feems to act both as an oil, and by its dilagreeable finell it prevents infects approaching it. In this refpect it may be fuccefsfully ufed to prevent field inice or other vermin preying on acorns, chefnuts, or other feeds fleeped in it before they are fown.

When thus giving directions for preventing the fly on turnips, a late experiment hould be mentioned, by the difclofing of which a perfon gained a confiderable reward. His fecret was, running a roller over the ground early in the morning, while the dew remained on the ground, on the firft appearance of the fly. The dew entangled the Hies fo much, that they could not make their efcape, and were therefore crufhed to death. As the roller may lenve the furface of the earth too hard, fome very properly advife to fix fome boughs of elder in a gate or hurdle, to be drawn over the field; and if the boughs had been before fumigated with the finoke of tobacco, or tincture of afafortida, the fuccefs would be the furer. The molt certain method of preventing the hurt done by the tly is to raife the plants in a nurfery, and at a proper age to traufplant them, being carried to the ground in a wheel-barrow filled with manure foftened with water fo as to admit the plants. This method will lecure their more fpeedy growth. In the nurfery the attack of the tly may be prevented by fprinkling foot or quicklime on the ground. The utility of tranfplanting turnips is evident by the practice of tranfplanting the turnip-rooted cabbage. They who are difcouraged from this practice by the expence attending it, do not rellect that the hoeing is prevented, and the plants grow the better, being fet in frell earth.
3. Before proceeding to direct the ufe of the lat means mentioned, viz. tobacco, for deftroying infects in turnips, it may be proper to mention an experiment made by Mr Green, of her majefty's flower-marden at Kew. He contrived a pair of bellows, fimilar to that employed in recovering people feemingly drowned. It
thorms of rain, and therefore the infufion muft Le driven upwarts lyy a forcing pump. As it is faid that the expence of tobacco is too great, perhap line-rva ter, of even water by itfelf, driven itrongly aguint the leaves, might drive them away. The labour attending fuch experiments in a large plantation difous rages others, without reflecting, that, if Such means are ufed early, the Hies may more caftry be got rid ut, Free ventilation is undoubtedly beneficiel to all plants ; and hence perinaps the partieular adtantages of deilling corn in rows a little diftant. If allevs fomerhat larges than comnen were made in the plantations of hons, there might be fufficient farses left where the alleys ercfen one anothe: to admit of fetting damp dera:v, or other materials mixed with brimttone, font, \&cc. on fire. Smoke itfle is faid to prevert the ty ; and if fe. it will fill ast more powerfully whea mixed with fuct materials. It has beca oblerved in Sweden, that the hops grow naturally among heips of tones of fagments of rocks. They thercfore adwile io cover the ground round their roots with llones, whic's will pre* vent the infects laying their egtes noar the roots in the ground, where they lay them to be protected durins the winter. 'The fones will allo prefore moifure at the rooss during the fummer. A rape cannat bo drawn acrofs a plantation of hops, as it can acrors a field of corn, in cafe of millerr. Here water to waft off the clamsmy juice that entices and feeds infects feems to be the only romedy. The plantation being well ventilated, may at leatt prevent the frequency of it. The forcing pump will molt effectually wall off this exudation.

Cruelly to Insegfs. It does not appear upon what principle of reafon and juffice it is, that mankind have feunded their right over the lives of every creature that is placed in a tubordinate aank of being to themfelves, Whatever claim they may have in right of food and felf-defence (to which ought we to add the purpofes of the naturalif, explained above ?) did they extend their privilege no farther than thofe articles would rea. fonably carry them, numberlefs beings might enjoy their lives in peace, who are now hurried out of them by the moft wanton and unaeceflary cruelties. It is furely difficult to difoover why it fhould be thoughe lefe inhuman to eruhi to death a harmlefs infect, whofe fingle offence is that he eats that food which nature has prepared for his fuftenance, than it would be were we to kill any bulky ercature for the fame reafon. There are few tempers fo hardened to the impreffions of humanity, as not to fluddes at the thought of the latter; and yet the former is univerfally practifed without the leat check of compaffion. This feems to arife from the grofs error of fuppoing, that every creature is really in itfelf contemptible, which happens to be clethed with a body inñintely difproportionate to our own, not confidering that great and littlo are merely relative terms, But the inimitable Slsakefpeare would teach แs, that
> the poor bectle that we tread upon,
> In corp'ral fuff 'rance, feels a pang as great
> As when a giant dies.

And indeed there is every reafon to believe that the fenfations of many infects are as exquifite as thofe of creatures of far more enlarged dimemions, perhaps eveu
more fo. The millcpede, for inftance, rolls itfelf round upon the fightel touch, and the finail draws in its homs upon the leaft approach of our hand. Are not thefe the ftrongef indications of their fenfibility? and is it any evidence of ours, that we are not therefore induced to treat them with a more fympathifing tendernefs?

Montaigne remarks, that there is a certain claim of kindnefs and benevolence which every fpecies of creatures has a right to from us. It is to be regretted that this general maxim is not more attended to in the affair of education, and preffed home upon tender minds in its full extent and latitude. We are far, indeed, from thinking, that the early delight which children difcover in tormenting fies, \&c. is a mark of any imnate cruelty of temper, becanfe this turn may be accounted for on other principles; and it is entertaining unworthy notions of the Dcity, to fuppofe he forms mankind with a propenfity to the mort deteflable of a!l difpolitions : but moft certainly, by being unteftrained in fporis of this kind, they may acquire by habit what they never would have learncd from nature, and grow up into a confirmed inatention to every kind of fuffering but their own. Accordingly the fupreme court of judicature at Athens thought an inftance of this fort not belorv its cognizance, and punifhed a boy for putting out the eyes of a poor bird that bad unthappily fallen into his hands.

It might be of fervice, thacefore, it flould feem, in order to awaken as eariy as pollible in children an extenlive fenfe of humanity, to give them a view of ieveral forts of infents as they may be magnified by the affiftance of glaffes, and to how them that the fane evident marks of wifdorn and goodnefs prevail in the formation of the minuteli infect, as in that of the moft enormous leviathan: that they are equally furrifhed with whatever is neceflary, not only to the prefervation, but the happinefs of their beings in that clafs of esiffence which Providence has affigned them: in a nord, that the whole comfruction of their refpestive organs diffinctly proclaims them the oijects of the divine benevolence, and therefore that they junly ought to be fo of curs.

INSERTION, in Anatomy, the clofe conjunction of the vefels, tendons, fibres, and membranes of the body with fome other parts.

INSINUATION derotes a conning and covert way of creeping into any perfon's favour.
Insinuation of a Will, among civilians, is the firt production of it, or the leaving it with the regifter, in order to its probate. Sec Will.

INSIPID, TAsteless, that which has nothing in it purgent enough to affect the palate, tongue, \&c. and to occafion that fenfation we call tafting.

INSition, lxitio, in Bo:any, denotes the fame with engrafting ; viz. the act of inlerting and uniting a cvon, bud, or the like, ia the fubftance of the flock.

INSOLATION, in Pharmacy, a methed of prepasirg certain fruits, cirugs, \&c. by expolin; them to the heat of the fun's rays; either to diy, to maturate, or to fratpen them; as is done in vinegar, figs, \&ac.-The word comes from the Latin verb infolc.e, wheh is ufed by Pliny and Columella, and fisninies is exprefe to the fun.

INSOLVENT, a term applied to fuch perfons as Vol. XI. Part I.
have not wherewithal to pay their juft debts. A per- Itwipectiou" fon dying, and not leaving eftate fufficicit to difcharge thefe, is faid to die infolvent.

Trial by INSPECTION, or Exammation, is when, for the greater expedition of a caufc, in fome point or ilfue, being cither the principal queftion, or arifing collaterally out of it, hut beng evidently the object of fenfe, the judges of the court, upon the teftimony of their own fenfes, fhall decisie the point in difpute. For, where the aflimative or ncgative of : queltion is matter of fuch obrious determination, it is not thought neceflary to fummon a jury to decide it ; who are properly called in to inform the confience of the court of dujious facts; and therefore, when the fact, from its nature, mult- be evident to the court cither from ocular demoniliation or other irrefragable proof, there the law departs from its ufual refort, the verdict of 12 men , and relies on the judgment of the court alone. As in cafe of a fuit to reverfe a fine for non-age of the cognizor, or to fet afide a flatute or recognizance entered into by an infant; here, and in other cafes of the like fort, a writ thall iffue to the merifi, commanding him that he conftrain the faid party to appear, that it may be afcertained by the view of his body by the king's jullices, whether he be of full age or not : Ut per alpectuns corporis fiei comfare poterit juficiariiss nofiris, $\sqrt{2}$ prodictus an fit plence retalis necne. If, however, the court has, upon infpection, any doult of the age of the party (as may frequently be the cafe), it may proceed to take proofs of the part; and, particularly may examine the infant himfelf upon an oath of vior dire, veritatem dicere; that is, to makc true anfwers to fuch queflions as the court thall demand of him ; or the court may examine his mother, his godfather, or the like.

INSPECTOR, a perfon to whom the care and conduct of any work is committed.

Inspectors, in the Roman law, were fuch perfons as examined the quality and value of lands and clfects, in order to the adjutting or proportioning taxes and impofitions to every man's eflate.

The Jexs alfo have an officer. in their fynagogie. whom they call infpector, in hiazeth. His bufinefs confilts principally in infpecting or overlooking the prayers and leffons, in preparing and thowing them to the reader, and in fanding by him to fee he reads right: and, if he makes miftakes, he is to correct hini.

INSPIRATION, among divines, \&c. iniplies the conveying of certain extraordinary and fupertatural notices or motions into the foul ; or it deuotes any fupernatural intluence of God upon the mind of a rational creature, whereby he is formed to any degrec of intellectual improvements, to which he could not, or would not, in facl have attained in his prefent circumfances, in a natural way. Thus the proplets are lail to have fpoken by divine infpiration.
Some authors reduce the infpiration of the facred writers to a particular care of Provid nce, which prevented any thing they had faid from failing or coming to nought ; maintaining, that they never were reallyinfpired either with knonledge or exprclion.
According to MI. Simon, i..fpiration is no more than a dircation of the Holy Spirit, which never permitted the facred writers to be mitaken.

It is a common opiuion, that the infiration of the IV m

Holy

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Infiration. Holy Spirit tecards only the matter, not the fylye or words; and this feems to fall in with M. Simon's doctrine of direçion.
Theological writers have enumerated feveral kinds of infoiration; fuch as an infyiration of fuperinten. dences, in which God does fo influence and direct the mind of any perfon, as to keep him more fecure from error in fome various and complex difcourfe, than he woulld have been merely by the ufe of his natural faculties; plenary fuperintendent infriration, which excluces any mixture of error at all from the performance fo fupeciintended; infriration of eleration, where the facuties act in a regular, and, as it feems, in a common manner, yet are railed to an extraordinary degree, fo that the compofure thall, upon the whole, have more of the true fublime or pathetic, than matural genius could have given; and infipiration of fuggeltion, whien the ufe of the faculties is fuperfeded, and God doss, as it were, fpeak directly to the mind, making fuch difcoveries to it as it couid not otherwife have obtained, and dititating the very words in whichll fuch dicoreries are to be communicated, if they are defigned as a macfiage to others. It is generally allowed that the New 'Teflament was written by a fuperintendent infipi. ration; for without this the difcourfes and doetrines of Clirit could not have been faithfully recoried by the erangeliits and apolles; nor could they have aiffumed the authority of Peaking the words of Chrit, and evinced this authority by the actual evercife of miraculous powers: and befides, the facred writings bear many obvious internal marks of their divine original, in the exse'lence of their dotrines, the firituality and elevation of thcir defign, the majefty and fimplacity of their fyle, the agreement of their various parts, and their cficacy on mankind ; to which may be added, that there has been in the Clriilian churcli, from its earlief ages. a conflant tredition, that the facred books were written by the extraordinary afli?ance of the Spirit, which miuft at leaft amount to fuperintendent infpiration. But it has been controverted whether this infipiration extended to every minute circumfance in their writings, fo as to be in the moot abolute fenfe plenary. ferome, Grotius, Erafmus, Epifcopius, and many others, maintzin that it was not ; whild others contend, that the emphatical manner in which our Lord fpeaks of the agency of the Spirit upon them, and in which they themelelves fpeak of their own writings, will juftify our believing that tleeir infpiation was plenary, unlefs there he very convincing evidence brought on the other fide to prove that it was not: and if we allow, it is faid, that there were furie errors in the New Tellament, as it came frum the hands of the apofiles, there may be great danger of fubverting the main purpofe and defign of it; fince there will be endleff room to debate the imyorrance both of fals zut doatrines.

Among the Heathens, the priefts and priefteffes were faid to be divinely iafpired, when they gave cracles, -The puets alfo laid claim to it ; and to this ond they always in roked Apollo and the Mufes at thie Leginning of any great work.
inspiration, in Physic, is underlood of that action of the breaft, by which the, air is admitted willin the lungs; in which fenfe, infriration is a

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branch of refpiration, and ftands oppofed to E-aspr-Infinititing ratios.

This admiltion of the air depends immedia:ely on its fpring or elaticity, at the time when the cavity of the breatt is enlarged by the elevation of the thorax and abdomen, and particularly by the motion of the diaphragm downwards: fo that the air does not enter the lungs, becaufe they are dilated; but thofe dilate, becaule the air enters within them. Nor is it the diatation of the brealt which draws in the air, as is commonly thought, thongh this is a condition abfolutely neceflary to intpiration; but an actual intrufion of the air into the lungs. See RespiRatiov.

INSPISSATING, in Pharmacy, an operation whereby a liquor is brought to a thicker condifience, by evaporating the thinner parts.

INSPRUCK, a city of Germany, in the circle of Auftria, and capital of the county of Tyol, reccived its mane from the siver Inn, which ruas by it. It has a noble catle or palace, formerly the refidence of the archdukes oi the houle of suftia, with a cathedral where they are buried. The houfes, though built in the German tatte, are lather handiomer; and the flreets, though narrow, are remarkably well paved. For the defence of this city the ishabitants can place but little confidence in their fortitications, which are very trining. They feem rather to depend on the nalural faftieffes of their country; which appear indeed to form a barrier, fo perfectly inaccelfible to any enemy, that even the great Guftavus Adolphus, after having overrun with his rictorious arms the other parts of Germany, could nurer make any impreflion upon this. It is feated in a pleafant valley, in E. Long. 11. 27. N. Lat. 47. 10.

INS"ILLATION, the act of giving vilib?e pof. feffion of an order, rank, or office, by placing in the proper feat. See Instalaient.

INSTALMENT, a fetting or inflating any perfon in a dignity. The word is derived from the Latin in, and fallum, a term ufed for a feat in church, in the choir, or a feat or bench in a court of juftice, \&ic. Though Vollius is of opinion the word is of German origin.

Isstalmest is chienly ufed for the induction of a dean, prebendary, or other ecclefiaftical dignitary, into the polleffion of his ftall, or proper leat, in the cathedral church to which he belongs. This is fometimes alfo called impallation.

Instalment is likewife ufed for the ceremony, whereby the kinghts of the garter are placed in their rank, in the chapel of St George at Windtor.

INSTANT, a part of duration in which we perceive no fucceltion; or it is that which takes up the time only of one idea in our minds.

INSTAURATION, the re-ettablifhment, or reftauration of a religion, a church, or the like, to its former ftate. The word is by fome derived from the old Latin inflaurum, which fignified tlie "ftock" of things neceflary for the tilling and managing of grounds; as cattle, tools, harnefs, \&cc. But the word imflaurum is only of the middle age: infauratio is of much greater antiquity, and by fome derived from infar, " like," as importing a thing's being brought

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Infep, to is Eomer likenefs or appearance. See RëstauraInftinct. TIOS.

INSTEP, in the manege, is that part ci a horfe's lind leg, which reaches from the lam to the pafiernjoint.

INSTINCT, a certain power or difpofition of mind, by which, indefendent of all inflrution or experience, without écliberaticn, and wibhout having any end in viev, animals are unerringly directed to do pontaneoutly ( 1 ) whitever is neceliary for the prefervation of the individual or the continuation of the kind. Such in the homan fpecics is the inflinct of fucking exerted jmmediately after birth; and fuch in the inferior creation is the inftinct by which infects invariably depofit their ecgs in fituations mot favourable for hatching and afording nourilhment to their future progeny. Thefe onerations are necefiary for the prefervation of the indiridual and the continuation of the kind ; but neither the isfant nor the inecet knows that they are necefiasy: they both act without having any end iu viere, and act uniformly without infruction and without eyperience.

The actions of the inferior animals are generally directed by intinct ; tho!e of man by reafon. This at leaft is the cafe with refpect to men in a ltate of civilization: in the favage ftate they are probably little lefs the flaves of inftinct than the brutes themfelves. Concerning human inltincts, indeed, philofophers differ uidely in opinign; fome maintaining that man is endowed with a greater number of inftincts than any fpecies of brutes; whill others deny that in human nature there is any power or propenfity at all which can propenty be called inftinctive.

This diverfity of opinion may eafly be traced to its fource. There are not many original thinkers in the world. The greater part even of thofe who are ca!led philujuplers, implicitly adopt the opinions of certain mal?ers whofe authority they deem fuificient to fupply the place of argument; and laving chofen their re$f_{s}$ ective guidec, each maintains with zeal what his maiter taught, or is fuppofed to have taught. When Locke fo luccefsfully atacked the doctrine of innate iceas and innate principles of fecculative truth, he was thought by many to have overiurned at the fame time all innate principles whatever; to liave divelted the lumain mind of every paffion, afeation, and inflinat; and to have left in it nothing but the fowers of (enfation, niemory, and intelleet. Such, we are perfuaded, was not his intention; nor is therc any thing in his immortal work which, when interyreted with candour, appears to have fuch a tenctency.

In our opinion, great part of the F.ffey on IHumar Underffanding has been very generally mitunderflood. Much of its merit, however, was foon difcowered; and mankind, finding philofophy difencumoered of the barbarous jargon of the Cehools, and buile upon a few felfcvident principles, implicirly embraced cvery opinion adranced, or which they fuppefed to te advanced, by the illuftrous author; efpeciatly if that opiaion was contrary to any part of the fcholallic fyilem which had fo long been emuloyed to perplex the minderiand. ing and to veil abfurdity. Hence arofe many phitoropher of eminence 'ooth at hoine and abroad; who maintained, as they imagined, upon the principles of Locke, that in the human mind there are no jattincts, but that every thing which had been ufually called by that name is refolvable iato antuciation and hatit. This doctrine was attacked by Lor! Shatcibusy, who introduced into the theory of mind, as facultics derived from nature, a fenle of beauty, a fenfe of honour, and a fenfe of ridicule; and thele he confidered as the telts of fecu'ative truch and moral rectitude. H: lordhip's principles were in part adopted by Mr Hutchitun of Glafgors, who publinhed a fyllem of moral philofophy, founded upon a fenfe or inttinet, to which he gave the name of the moral fenfe; and the undoubted merit of his work procured him many followers.

Men generally run from one extreme to ancther. It being now difcovered, or at leaft fuppored, that the human mind is endowed with inflinctive fuiscinles of action, a lect of philofophers foon afterwayls arofe, who maintained wit! much vehemence that it is likewife endorsed with infinctive principles of beiief; and who buikt a fyllem of metaphyince, if fuch it may be called, upon a number of imnate, dianct, and independent fenfes. The rife of this fect is well knowr. Berkeley and Hume had acopted Locke's doctrine refpecting the origin of our ideas; and had thence deduced conlequences fuppofed to be dangerous in themfelves, but which, it was thought, could not be denied without refuling the principles from which they were inferred. The foundation of the infinstive fyde:n teing thus laid, the fyfem itfelf was rapilly carried to $t$ height far beyond what feems to have been the intention of its excelient author; and reacn was well nish banithed from the regions of philofophy. For fuch it proceeding it is not dilficult to allign the caufe. 'The inninctive foheme requires much lefs labour of inveitigation than the fyllems of Locke and the ancients; for upon the principles of $i t$, when carried to its wimoit extent, every phenomenon in human mature is thought to be fufficiently accounted for, by fuplpofing $\mathrm{Mm}_{2}$
(1) As nothing is of greater importance in the philofophy of mind than accurate definitions, it may not be improper to obferse, that through the whole of this article the word fpontaneons is to be taken in the funfe in which it is u'ed in the following extrags from Haies"s Origin of Mankind: "Many analogical motions in animaic, though 1 cannot call them zolumary, yet I fee them foontaneous: I have reafon to conclude, that thefe are not fimply meckanical!" "The lagacities and inftincts of brutce, the fpontaneoufnefs of many of their motions, are not explicable, withour fuppefng fome active determinate power connected to and inherent in their fipits, of a higher extraction than the bare natural modification of matter." If this be attended to, our defintiun of inftinct will be fourd perfectly confonant to that which hes been given by the author of Incient Mivati\%fics. "Inninct (he fays) is a determinazion given by Almighty W ifdom to the mind of the brute, to a.t in fe:ch or fucl: a way, ufon fuch or fuch an occafion, without intelligence, withelt knowledge of good or iil, and without knus,ing for what end or parpofe he acts."

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frnisen, it the cfice of a particular inflinet imphanted in the mind for that very purnofe. Hence in fome ponular works of phitofephy we have a detail of fo many difinct irternal fenfes, that it requires no fmall itrength of memory to retain their very names: befides the moral fenfe, we have the fenfe of becury, the fenfe of deformity, the fenfe of horour, the lioarding fenfe, and a thoufand others which it is needieis here to mention.
'lhs new fyttera, which converts the philofophy of misel into mere tiatory, or rather into a collection of facts and ancedotes, though it has made a rapid progrefs, is not yet univerfally received. It has been oppofed by mery fpeculative men, and by none with greater $\mathbb{k}$ :ill than Dr Priefley; who maintains, with the earlielt admirers of Locke, that we have from nature no innate fenfe of truth, nor any inflinctive principle of actic:1; that even the action of fucking in new-born infants is to be accounted for upon principles of mechanim; and that the defire of the fexes is merely affociation.

Inrinct confounded with reafor and with mechamfin

Whilt men, eminent for candour as well as for fcience, have thus been difputing the limits between inftinct and realon in the human mind, and endeavou:ing to afcertain the actions which refult from each, two writers of name, treating of that fubject, have lately advanced opinions, which, if admitted as juft, murt seader the difpute henceforth ridiculous, and put an ond for ever to all moral inquiries. Mír Sinellie. in a vurk which he calls The Philofoplyy of Natural Hifory, affirms, that between infincive and rational motives no difinction exills, but that the reafoning faculty itfelf is the receltary refult of inftinct ; and Dr Reid, in his Elfays on the Achive Powers of Man, by attributing to infinct the adion of breathing, feems to confound that principle with mere mechanifm.
Thefe ${ }^{5}$ three. That reafon, inftinct, and mechanifm, are all effenprinciples accurately dititinguified from each other.
tially different from one another, has hitherto been univerfally allowed; and it appears not to be a tafle of much difficulty to point out in what refpect each of them differs from the other two. Actions performed with a view to accomplim a certain end are called rational actions, and the end in view is the motive to their performance. Infingive actions have a caufe, viz. the internal impulfe by which they are fontaneoully performed ; but they cannot be faid to have a molisc, be-
caufe they are not done with any ariau to comfequences. A taions automatic have likewife a caufe; but that caufe is not ixtenial impulle, but m.re mechanifnt, by which they are performed without any fpontaneity of the agent. Thus, a man gives charity in order to relieve a perfon from want ; he performs a gratefal action as a duty incumbent on him; and he fights for his country in order to repel its enemies. Each of thefe a:tions is performed from a motive, and therefore they are ail rational actions. An infant is impelled to fuck the bealt, but he knows not that it is neceffary for his prefervation; a couple of young favages go together, for the fritt time, without any view to offspring or any deterninatc idea of enjoyment. Thefe actions have no motive, and therefore are not rational : but as they are performed by a foontancous exersian of the agents, they are not to be attributed to mere mechanifm ; they are therefore infinctive actions. A man breathes without any motive, without any frontancous exertion of his own, and that as well when he is alleep as when he is artake. The action of breathing therefore is neither rational nor inflinctive, tut merely automalic or mechanical. All this feems to be very plain. To talk of the motives of actiens performed ty inftinct, in an argument intended to prove that between reafon and inftinet there is no difference, is eitber to beg the quefion or to pervert language. If the author of the Philofophy of Natural Hiffory chooles to call the impulfe which prompts the infant to fuck by the name of motive, he only ufes an Englith word improperly; if it be his intention to affirm that fuch a motive is not totally and efentially different from that which pron pts a man to give charity or to fight for his country, he affirms what all mankind know to be falle ( $B$ ).

Having thus afcertained what we mean by inflinct, we thall now proceed to inquire, Whether or not there be any inftinctive principles in man? But in order to proceed upon fure grounds, it will be proper to confider, in the fift place, fuch actions of the inferior animals as are generally allowed to be inflinctive: for an attcmpt lias lately been made to prove, that even thefe actions are the offspring of reafon intluenced by motives; and that infinct, as we have defined it, is a mere imaginary principle, which has no existence either in man or brute.
(B) 'The author of Ancient Metaplyfics, whofe learned work contains more good fenfe on this fubject than any other book which we have feen, thus diftinguifhes between reafon and inftinet: "With refpect to the mere animal, it is evident, that he purfues nothing but what is conducive cither to the prefervation of the animal life or to the continuation of the kind. On the other hand, the object which the intellectual mind purfues, is the fair. and the handfome ; and its happinefs confifls in the contemplaxion of thefe. And though it purfie alfo what is uffeful and profitible for the being and well-being of the animal life, yet it is for the fahe, not of the animal life itlelf, but of the $\tau$ oxxion or beautiful; which therefore is the ultimate objert of its purluit in all things.
"Another material difference in practice betwist the animal and intellectual mind is, that every action of intelle ft procceds from an opinion formed concerning what is good or iil, beautiful or the contrary, in the action. When we do fo, we are faid to act from will, which is always determined by fome opinion formed of the kind I have mentioned: whereas, when we act from mere appetite or inclination, without deliberation or opinion formed, we act as the brute does always; for he has no will, but is prompted to action by matural impulfe, or igun, as the Greeks call it.
"A third very material difference is, that incelcet, in all its operations, propofes ends, and deviles means to accomplih thefe ends; whereas the irftind of the brtite proceeds without confideration either of ends or means."

It las been faid that caterpillars, when thaken off a tree in every direction, intantly turn round towards the trunk and climb up, though they had never former!y been on the furface of the ground. This is a friking inflance of intting. On the tree, and not upon the ground, the caterpillar finds its food. If therefore it did not turn and climb up the trunk it would inevitably periih; but furcly the caterpillar knows not that fuch an exestion is neceffary to its prefervation; and therefore it ats not from motives, but from blind impulfe. The bee and the beaver are endowed with ain infinct which has the appearance of forefight. They build magazines, and fill them with provifions; bat the forefight is not theirs. Neither bees nor beavers know any thing of futurity. The folitary wafp digs holes in the fand, in each of which the depofits an egg. Though fhe certainly knows not that an an:mal is to froceed from that egg, and fill leis, if polfible, that this animal mult be nourihad with other animals, the collects a few fmall green worms, which the rolis up in a circular form, and fixes in the hole ia fuch a manner that they cannot move. When the wafp-worm is hatched, it is amply fored with the food which nature has deftined for its fupport. The green worms are dcwoured in faceeftion; and the number depofied is cxactly proporticned to the time necellary for the grosth and transformation of the wafpworm into a fly; when it iflues from the hole, and is capabie of procuring its own nourilhment. This inftinct of the parent-wafp is the more remarkable, that the feeds not upon fleth herfelf. Birds of the fame frecies, unlefs when reftrained by peculiar circumifances, uniformly build their nefts of the fame materials, and in the fame form and fituation, though they inhabit very different climates; and the form and fituation are always exacly fuited to their nature, and calculated to afford them thelter and protection. When danger, or any other circumftance peculiar to certain countries, renders a deviation from the common form or fituation of nefts neceflary, that deviation is made in an equal degree, and in the very fame manner, by all the birds of one fpecies; and it is never found to evtend beyond the limits of the country where alone it can ferse any good purpofe. When removed by neceffity from their erge, birds return to them with hafle and ansiety, and hift them fo as to heat them equally; and it is worthy of obfervation, that their hafte to zeturn is always in proportion to the cold of the climate. But do bi:ds realon, and all of the fome fpecies realon equally well, upon the nature and extent of danger, and upon the means by which it can bet? be avoided? Have birds any netion of equality, or do they know that heat is necelfary for incubation? No: in all thefe operations men recognile the intentions of rature; but they are till from the arimals themSelves, and ther, fore cannot operate wion them as motives.

Of the intinit of arinasls wee that give one intiance more in the elegant and perfeicous lan uage of Dr Reid. "Evcry mannfacturing arr omong men (fays that able writer) was invented by fome $m$ in, improved by otleers, and brought to perfection by time and experience. Men leara to work in it by lo, g praciice, which produces a tatiot. The a:o o of mon wary in every age and in every nation, and are fomi only in thofe men who have been taught them. The natufaciures
of animals differ from thofe of men in many Rriking Irainat particulars. No animal of the fecies can claim the invention; no animal ever introduced any new improvement, or any variation from the former practice; every one of the fipecies has equal fkill from the beginning, without teaching, without experience, and without habit ; every one has its art by a l:ind of infpiration. I do not mean that it is infired with the principles or rules of the art, but with the ability of suorking in it to perfection, without any knowledge of iss principles, rules, or end. The work of every animal is indeed like the works of nature, perfect in its hind, and can bear the moft critical examination of the mechanic or the mathematician; of which a honeycomb is a friking inftance.
"Bees, it is well known, con月ruet their combs with Remark. fmall cells on both fides, fit both for holding their itore able inof honey and for rearing thcir young. There are tance in only three poffible figures of the cells, which can make the bee. them all equal and fimilar, without any ufelefs interfices. Thefe are the equilateral triangle, the fquare, and the regular hexagon. Of the three, the hexagon is the moft proper, both for converience and firength. Bees, as if they knew this, make their cells regular hexagons. As the combs have cells on both fides, the cells may either be exactly oppofite, having partition againf partition, or the bottom of a cell may reft upon the partitions between the cells on the other fide, which will ferve as a buttrefs to Itrengthen it. The laft way is the belt for ftrength ; accordingly the bottom of each cell refts againft the point where three partitions meet on the other fide, which gives it all the frength poffible. The bottom of a cell may either be one plane, perpendicular to the fide partitions; or it may be compofed of feveral planes, meeting in a folid angle in the middle point. It is only in one of thefe two ways that all the cells can be fimilar without lofing room. And, for the fame intention, the planes, of which the bottom is compofed, if there be more than one, mult be threc in number, and neither more nor ferrer. It has been dermonttrated, that by araking the bottoms of $t^{\prime}$ w cells to conifit of three planes meeting in a point, there is a faving of material and labour no way inconfiderable. The bees, as if acquainted with the!e principles of folid geometry, follow them mof accurately; the botom of each cell being compoled of three planes, which make obtufe angles with the fide partitions and with one another, and meet in a point in the middle of the botom; the three angles of this bottum being fupported by three part:tions on the other fide of the comb, and the point of it by the common interfetion of thefe three partitions. One intance more of the mathematical dikill difplayed in the itrusture of a honey-comb deferves to be nientioned. It is a curious matherratical problem, at selat precife angle the three planes which compofe the bottom of a cell ought to meet, in order to make the gratatelt, polfib?e faving of materral and labour. "This is one of thofe mroblems belunging to the ligher parts of mathrematics, which arc called rroblems of maxima and minima. The celebrated Tr La:ring rofotvod it by a Anxionary calculation, which is to be found in the Trariactions of the Royal Society of Loond us, and dete:mined precikly the atg'e iccuired. Upon the mo? exact menfu:ation which the frubeẹt culd admit,

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Irfinct. he afocrwarls found, that it is the wery angie in which the three pianes in the bottom of the csill of a honevconb so achual'y meet.
" Shail we ank here, Who taurgit the bees the prop"rties of folids, and to refolve problens of mawima an 1 wimima? If a homey-comh were a rort' of humn are, eiery mon of coninon fenfe would conciude, without lacitation, that he who invented the contrudinn mat have undentloud the primciples on which it w.s confruated. We need not lay that bees know nane of thefe things. They work moll geometrically without any knonledge of geometry: fonewhat like a chiild, who by turning the handle of an organ makes cood mufic without any knowledge of mufic. The art is nut in the clild, but in him who made the crgan. In like manner, when a bee makes its combs to geometrically, the geometry is not in the bee, but in that great Geometrician who made the bee, and made all things in

Which cannor 'e confonnded w:itb the operations of reafon.

We have given a full detail of the fructure of a honey-comb, becaule it is an effect of inltinct which cannot be confounded with the operations of realon. The author of The Natural Hipory of Animals, jully offiended with that theory which treats of infinctive mo. tives, which reprefents the humn mind as a bundle of
innincts, and of which the object lecms to be to degrade narikind to the level of orutes, has very laudably everted his ewiearours to detect ins weaknef, and i.) evpole it to contempt. Ditt in avoiding one exteme. he leems to have run into the other; and is hint he
 the brutes to the rank of men. . It is Cetice ('he bay, to thare our righs with othe:s athan to be cantrely de. prived of then:" "1"ais is cerain?y true; and no goxd man will ha itate to preeer hic theory to that of his a tagonift: bist we fee mo necelity for adopting cither; the phenomeria may be accounted for mithout degradias reafon to the le c! of inftinct, or elevating inftinct so the dignity of reaton.

We thall readily allow to Locke ic), that forme of on foo the inferior animals feem to have perceptions si particular truths, and within very narron limits the fataly of reafen: but we fee nos gicund to lippoie that their natural operations are pertoned with a view to coirferuacnces; and the:cfore cannot perfuade ourfelves, with this hiltorian of theirs, that thele operations are the refult of a train of reafoning in the mind of the animal.

He acknowledges indecd, that their reafoning and thinking powers are remarkably dencient when conpared with tho!e of men; that they camot take fo fall
(c) "For if they have any ideas at all, and are not mere machines, as fome would have them, we cannot deny them to have fome reafon. It feems as evident to me, that fome oí them do, in certais intiances, reaton, as that they have fenfe; but it is only in particular ideas, jutl as they received them from the fenfes. They are the beit of them tied up within thofe narrow bounds, and have not, as I think, the faculty to enlarge them by any kind of abftraction." Effici on Human Underflanding, Book ii. chap. si.

This is in part a jult obfervation, atid ferves to account for many phenomena which later writers have derived from inftinct. The author of The Philofophy of Natura! Hiflory had "a cat that frequented a clofet, the door of which was faftened by a common iron latch. A window was fituated near the door. When the door "as thut, the cat gave he:felf no uneafinefs. As foon as the tired of her confineruent, fie mounted on the fole of the window, and with her pais dexteroully lifted the latch and came out." This practice, which we are told continued for years, mult have been the confequence of what Locke calls reafoning in particular ideas. It could not be the effect of intlinet ; for inftinct is adapted only to a flate of nature, in which cats have neither latches to liit nor doors to open; and as it is not faid that the animal attempted to lift the latches of other doors, we are net authorifed to infer that this particular action was the confequence of reafoning in ideas enlargel by abitraction : the cat had repeatedly feen oae door opened by an exertion which the was capable of imitating. Yet that animals have no power of enlarging their ideas, is a pofition, of the truth of which, though it is advanced by Locke, we are by no means confident. It is well known that crows feed upon feveral kinds of hell-fih when within their reach; and that they contrive to break the thell by raifing the fih to a great height, and letting it drop upon a none or a rock. This may perhaps be conidered as pure infinat direating the animal to the proper means of acquiring its food. Eut what is to be thought of the following fact, which was communicated to us by a genteman whofe veracity is unquellioned, and who, being totally unacquainted with the theories of philofophers, has of courfe no favourite hypothefis to fupport ? In the fining of the year 1791, a pair of crows made their neft in a tree, of which there are feveral planted round his garden; and in his morning-walks he had often been amufed by witnelfing furicus combats between them and a cat. One morning the battle raged more fiercely than ufual, till at lat the cat gave way and took thelter under a hedge, as if to wait a more fasourable opportunity of retreating to the houfe. The crows continued tor a moot time to make a thre tening noife; but perceiving that on the ground they could do nothines more than threaten, one of them lifted a tlone from the middle of the garden and perched with it on a tree planted in the hodge, where the lat watching the mutions of the enemy of her young. is the cat crept along winder the hedge, the eroiv accompanied her by pi, ing from branch to branch and from tree to tree; and when at lat puls ventured to quit her hidins-place, the crow, leavisg the tree, and hovering over her in the air, let the flone drop from on high on her bact.. That the crow on this occation reafoned, is felfeevident; and it fecms to be little lefs exident, that the ideas employed in her reafoning were enlarged beyond thofe which the bad received from her fenfes. By her ienfes, the may have perceived, that the thell of a fith is broken i.y a fall; but could ler fenfes inform lee, that a cat would be wounded or driven off the tield by the fall of a the? N : from the effect of the one 'all preferved in her memory, the mull have inferres 1 the other by lier forver of acafoning.

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tir of a review of the patt, nor look fors:ard with fo penetriting an eye to the future; that they do not accumulate olfervation upon obfervation, or add the experience of one gencration to that of another: that their manners do not way nor their cufons t?uctuate like ours: and that their arts always remain the fame, without degeneracy and without improvement. "I'he crow (he oblerves) always builds its neft in the fame vay; every hen treats her young with the fame meafure of afrection; even the dog, the horle, and the fagacious elephant, feem to act rather mechanirally than with deficn. From fuch hafy obfervations as thefe, it has been inferred (he favs), that the brutes are dirceted in their actions hy lome myllerious infuence, which impels them to employ their powers unintcritionally in ferforming aclions beneficial to themfilves, and fuitable to their nature and circum?ances."

And are thefe obfervations indeed hafty ? and is this inference ill fourded? To us the matter appears quite otherwife. it the arts of brutes and other animals have always remaned the fame without degeneacy, and without improvement ; and if they Le at the fame time the refuit of reafoning, they muft either be fo perfect that they cannot be improved, or fo imperfect that they cannct exgentate. That the ftructure of a honey comb is inpcricet, no man has ever imagimed. We have feen, that, as $f 3 r$ as we are capable of difcerning the end which it is intended to ferse, it is the moff perifect firucture poffible: and therefore, if it be the relult of the reafoning of the bee, the author mult retract his affertion refpecting the extent of the reafoning and thinking powers of inferior animals; and inflead of faying that they are remarkably delicient when con:pared with thofe of men, atirm that they are infinitely more perfect. No human art has yet arrived at fuch ferfection as that it might not be improved; 110 architect has ever built a torn, or conliructed a magazine, which be could mathematically clemonfirate to be of the very belt potible form for the end intended, and fo abfolutely perfect as to be incapahle of improvement.

But the fame author procceds to aflirm, that " the laws of analogical reafoning do not jutify the idea that the brutes act, on any occafion, abfolutely without delign." Nay, he fays, it feems more probable, "that the inferior animals, even in thole inttances in which we cannot diffinguifb the motives which actuate them, or the views with which they proceed, yet act with defign, and estend their views, if not a great wav, ret at leat a certain length forward; than that they can te upon any occafion, fuch as in reariang of their soung, building nefts, \&c. actuated merely by feeling, or orerruled by fome mylterious inlluence, under which they are nothing but infenfible inftrument:". This laft phrafe is ambiguous. If ly infenfible inffuments it be meant that the brutes are confidered by the adrocates for inftinct as mere machines rithout the faculties of fenfation and fpontaneity, the author is combating a phantom of his own
creation: for we believe an opini,n fo abrurd is nut faftec. now maintained by any man, ( 1ee Brute.) But if by infunfible inftruments be meant fuch initruments as act $f_{1}$ nontanconfly without being confcious of the ead to which their actions lead, he ap cars rot only to be egreginufy mittaken in 1 is wos jecare relpeinng the defign of brutes, but alfo to have astanced an hypothefis contradictory and incomtiteat.

If it be true, that the inferior animals act with do w ir an$\int_{5} n$, even in thofe inftances in which we cannot di-cd, mb ftimguilh their mutives, dseir siews may insleed c: tend but a little way when compared with inanity : but certainly they extend farther than ours; for there is no ufeful work of man conftructed with fuch thil?, but that, after it is finifhed, another man of coual education will be able to diltinguih the general defign of the artift. But if the inferior animals, on a!l occafions, act with defign, we fhould be glad to know the defign of the bees in forming the cells of their conibs in the manner which we have fo largely defcribed. Do thefe little animals indeed know that a comb, confifing on both lides of hexagonal cells, with the botions of each compofed of feveral planes mectiny in a certain fo. lid angle, and fo formad as that the bottoan of a cell on the one fide thatl reft upon the partitions between the cells on the other fide, is in all refpects the moft proper both for holding their flores of honey and for rearing their young? And do they likewife know, that its escellence arifes from the precife ngure and putition of the cells, by which there is a very conliderable faving of labour and materials, whilit the comb at the fane time has the greatelt pollible itrength, and the greateft ponlible capacioutnefs? If they know all this, and ait with a view to thefe ends, it munt indeed be confe:led that bees are rational creatures, and that their thinking and reafoning powers far furpals thofe of men; for they have from the earlient ages made difcoveries in the hisher mathematics, which there is reafon to beliese were altogether unknown to the human race till the beginning of the prefent century, and which at this monent are beyond the comprehenfon of nine-tenths of mankind in the molt enlightened mation on earth. If this be a conclution too abfurd to be admitted, there is no other alternative but either to fuppofe that by this artificial Itructure of their cells the bees have fome other end in wiew, which we cannot dintinguith; or to acknowledge that they are overruied by lome rayiterious influence, under which they are nothing but fpontancous agents, unconfcious of the end to whic! their operations tend. Which of thefe conclufions is the molt rational, we will not offer fuch an infult to the underfanding of our readers, as to fuppofe the meaneft of them capable of entertaining a doubt. That a honey-comb is conflructed with defign, we mult readily admit ; but the defign is not in the bees, but in the Creator of the bees, who direfs their operation to their own good, by what the author with great fropriety terms a mytlerious influence (D).
but le thinks it an unanfwerable argument in fup-anotjec. port tion to it
(D) Though this way of acting is undoubtedly myfterious, "yet it thould not appear extraordinary even to a man who is not a nhilofopher, as we fee examples of it daily in our own fpecies: For a man under the direction of another of fuperior underfanding, will ufe means 10 wccomplith an end, without having any ites of either;

Tntinct.

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 port of his theory, that in the performance of thofe artione, in which animals are faid to be guided by uncrring imfinet, different individuals difplay different modes of conduff ; and in his opinion, to talk of inEinctive principles which adnit of improvement, and accommodate themfelves to circumfances, is merely to introduce new terms into the language of philofophy; for he affirms, that no fuch improvement or accommodation to circumilances can ever take place without a comparifon of ideas and a deduction of inferences. It is probshle that the author here alludes to thofe animals which, in their mott important operations, are known to act dilferently in difierent countries Thus the ontich in Senegal, where the heat is excelifive, negleets her cggs during the day, but fits upon them in the night. At the Cape of Good Hope, however, where the degree of heat is lefs, the oilrich, like other birds, fits upon her eggs both day aisd night. In countries infelted with mionkeys, many birds, which in other climates build in bufhes and clefts of trees, fufpend their nefls uron lender twigs, and thus elude theIt may be thought, that a determination of the mind of the brute to act fo varioufly a on different occatons, can bardly be conceived withoat juagment or intelligence, But before our author l:ad fo confidently affirmed that fuch accommodation to circumflances can never take place without a comparifun of ideas and a deduclion of infere:ces, he wald have done well to confider how nature acts in orther organized bodies, fuch as the vegetable. We fee that a vegetable, reared in the corner of a dark cellar, will bend it'elf towards the light which comes in at the windors; and if it be made to grow in a flower-pot, with its head downwards, it will turn itfelf into the natural polition of a plant. Can it be fuppofed, that the plant, in either cafe, does what it does from any judgment or opinion that it is belt, and not from a neceflary determination of its nature? But, further, to take the cafe of bodies unorganized, how hall we account for the' phenomena which chemiltry exhibits to us? When one body unites with another, and then, upon a third being prefented to it, quits the firlt, and unites itfelf with it, thall we fuppofe that this preference proceeds from any predilection or opinion that it is better to cleave to the mie than to the other, from any comparifon of ideas or deduction of inferences? Or fhall we not rather fay, that it proceeds from an original law of nature imprefSed upon it by that Being who mediately or inmediately diress every motion of every the minuteft atom in the univerfe? And if fo, why may not inflinct be an original determination of the mind of the animal, of which it is part of the nature or effence to accommodate itfelf to certain circumiltances, on which depends the prefervation of the individual, or the continuation of the kind? Indeed it cannot be otherwife, if we have defined inftinct properly; for no man ever fupnofed, that when animals work inftinctively, they act for no purpofe. It is only affirmed that the purpofe is not known to them. It is known, however, to the Author
of infinct; who krows likewife that the fame purpofe Initin muft in diferent climates be promoted by different means, and who accordingly determines the oucrations of animals of the lame fpecies to be different under diferent circurntlances.

But though we cannot agree with this author when Iatinot he afirms that no accommodation to circumfances can ap ble ever take place without a comparifon of ideas, we rea-mprov dily adnuit that no faculy which is capable of ingprovement by obfervation and experience can in propricty of fpeech be termed initinct. Intind being a pofitive determination given to the minds of anamals by the Anthor of nature for certain purpofes, muft necefiarily be perfect when riewed in connection with thofe purpofes : and therefore to talk, as Mr Smellie does, of the improvement of infinct, is to perples the underflauding by a pervertion of language. There is not, however, a doubt, but that reaion may copy the works of inflinet, and fo far alter or impove them as to render them fubfersient to other purpofes than thofe for which they were originally and indindively performed. It was thus in all proobability that man at firft leamed many of the molk u.fful arts of life.
"Thy arts of building from the bee reccive;
"Learn of the mole to plough, the worm to weave;
"Learn of the little nautilus to fail,
"Spread the thin oar, and catch the driving galo."
But the arts this adopted by men are no longer the works of inflinct, but the operations of rafon influenced by motives. This is fo obvioufly and undeniably true, that it has compelled the author laft mentioned to confefs, in that very feetion which treats of inflincts improveable by experience, that "what men or brutes learn by experience, though this experience be founded on inftinct, camot with propricty be called inflinctive knowledge, but knowledge derived from exparience and oblervation. Inting (he fays) ftould be limited to fuch actions as every indivicual of a fpccies exerts without the aid either of experience or imitation." This is a very juft ditinction between infinct and experience; but how to reconcile it with the fualamental principle of the author's theary we know not. It wnuld certainly be a very arducus tafk; but it is a tafe frum which we are happily relieved, as his theory and ours have little refemblance.

Having thus proved, we hope to the fatisfaction of rie ${ }^{15}$ our readers, that there is fuch a principle as inftinit in ther ith the inferior animals, and that it is ell ntially different any from human reafon; let us return to our own fpecies, dfoms and inquire whetber there be any nccaions upon $\%$ hichon whi man acts inftinctively, and what thofe occatious are. min ac This is a queftion of fome difficulty, to which a com-1 infexi: plete and fatisfactory anfwer will perhaps never be gi-ned. ven, and to which we have not the vanity to think that fuch an anfwer uill be given by us. The principle of affociacion (to be explained afterwarls under the article Merapiisics) opentes fo poxerfully in man, and at fo early a period of life, that in many cafes it feens to be impoffible to diftinguilh the efiects
either; and indeed, in my opinion, by far the greater part of mankind are denfined by God and nature to the governed in that way." Ancient Metapluyfics, vol. iii. p. 352.

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inftinct. of havit from the operations of natia:e. Iet there are a feir cafes immediately connected with the prefervation of the individual and the propagation of the kind, in which by a little attention thefe things may be diftinguifhed. We have already given an inflance in the fucking of a child, which we belicve to be an operation performed by inftinct. 1)r Priclliey, however, thinks differently: "The action of lucking (fays he), I am confillent, from my own obfervations, is not hatural, but acquired." What obfervations they were which led him to this conclution he has not told $u s$, and we cannot imagine; but every oblervation which we ourlelves have made, compels us to believe that an attempt to fuck is natural to chiluren. It has been obferved by the author of the Philofophy of Natural Hiftory, that the inftinct of fucking is not excited by any lmell peculiar to the mother, to milk, or to any other fubftance; for that infants fuck indifcriminately every thing brought into contact with their mouths. He therefore infers, that the defire of fucking is innate, and coeval with the appetite for air. The oblervation is certainly juft : but a difciple of Dr Prieftley's may object to the inference; for "in fucking and fwallowing our food, and in many fuch inftances, it is exceedingly probable (fays the dactor), that the actions of the mufcles are originally automatic, having been fo placed by our Maker, that at firf they are 1 timulated and contract mechanically whenever their action is requifie." This is ccrtainly the cafe with refpect to the motion of the mufcles in the action of breathing; and if that action be of the fame kind and proceed from. the very fame caufe with the action of fucking, and if a child never how a defire to fuck but when fomething is brought into contact with its mouth, Dr Prieftley's account of this operation appears to us much more fatisfactory than that of the authors who attribute it to inftinct.

But the actions of breathing and fucking feem to differ effentially in Ceveral particulars. They are indeed both performed by means of air; but in the former, a child for many months exerts no fpontancous effort, whilit a fpontaneous effort feems to be abfolutely neceflary for the performance of the latter. Of this indeed we could not be certain, were it true that infants never exhibit fymptoms of a wifh to fuck but when fomething is actually in contact with their mouths; for the mere att of fucking then might well be fuppofed to be automatic and the effect of irritation: But this is not the cafe. A hcalthy and vigorous infant, within ten minutes of its birth, gives the plainelt and molt unequivocal evidence of a defire to fuck, before any thing be brought into actual contact with its mouth. It ftretches out its neck, and turns its head from fide to fide apparently in queft of fomething: and that the object of its purfuit is fomething which it may fuck, every man may fatisfy himfelf by a very convincing experiment. When an infant is thus ftretching out its neck and moving its head, if any thing be made to tuuch any part of its face, the little creature will inflantly turn to the object, and endcavour by quick alternate motions from lide to fide to teize it with its mouth, in the very fame manner in which it always feizes the breall of its nurie, till taught by experience to diltinguilh objects by the fenfe of fight, when thefe alternate motions, being no longer ufeful, are no longer

VoL, XI. Part I.
employed. If this be not an inftance of pure infing, Intinet. we know not what it is. It cannot be the refult of -allociation or mechanilin ; for when the Itretching of the neck takes place, nothing is in contact with the child's mouth, and no aftociation which includes the act of fucking can have been formed. Adocmations of ideas are the conferguences of fimultancous impreflions frequently repeated; but when the child firft declases, as plainly as it could do were it poffelled of language, its with to fuck, it has not received a fingle imprefion with which that wifh can poffibly be affocinted.

Were Dr l'riefley to weigh thele facks, of the truth of which we are certain, we doubt nut that his weilknown candour would make him retract the alforion, that all the actions which Dr Reid and others refer to inttinct, are either automatic or acquired. The greater part of thofe actions, as well as of the apparently itithinctive principles of belief, we have no doubt are acquired: but we are periuaded that a cloild fucks it: nurle as a bee builds its cell, by inftinct, for upon no other hypothefis can we account for the fpontaneous efforts exerted in both thefc operations: and we think it no difgrace to our lipecies, that in lume fers cale, we fhould act from the fame principle with ihe inferior creation, as nothing feems more trie tizan that,

## _Reafon raife ooer inftinct as we can ; <br> In this 'tis God that works, in that 'tis man.

We have faid, that, in the farage Itate, the feses go together for the firlt time by inftimet, without any view to oftspring, and perhaps with no determinate idea of enjoyment. This opinjon, we believe, has been generally maintained; but it is controverted by Dr Hartlcy. "Here (fays he) we are to obferve, firft, that when a general pleafurable tate is introduced, either by direct impreflions or by allociated intuences, the organs of generation muft fympathze with this general flate, for the lame reafons as the other parts do. They muft therefore be affected with vihrations in their nerves, which rife above indifference, into the limits of pleafure, from youth, health, grateful aliment, the pleafures of imagination, ambition, and fympathy, or any other caufe which diffufes grateful vibrations over the whole fyltem.-Secondly, as thefe organs are endued with a greater degree of fenfibility than the other parts, from their make, and the peculiar Aructure and difpofition of their nerres, whatever thele be, we may expect that they thould be more affected by thofe general pleafurable ffates of the nervous fyltens than the other parts.- Thidly, the dilienfion of the cells of the veficulce feminales and of the finufes of the uterus, which take place about the time of puberty, mult make thefe organs more particularly irritable then." His fourth obfervation refpects a flate widely different from that of nature, and therefore is nothing to the purpofe: but his fifth is, that "the particular fhame which regards the organs of generation, may, when confidered as an affociated circuniftance, like ather pains, be fo far diminithed as to fall within the limite of pleafure, and add confiderably to the fum total."

To this excellent and able writer we may allow the truth of thefe obfervations (though fome of them might certainly be controverted) ; and yet dieny his conclution, that "they are futfictent to account for the N n
genera!

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Intinet. general defires which are obfervable in young perfuns, and that thofe delires are of a factitious nature." For fuppofing every thing which he mentions to take place by mere mechanifm and affociation; that the organs of generation are irritated, and certain ceils and fitules diftended ; the only interence which can be iairly drawn from fuch premifes is, that at the age of puberty young men and women mult from thele caufes experience certain feelings and wants which they knew not before; Lut furely nechanifm and afiociation cannot teach them the ufe of the organs of generation, or point out the only means by which their new feelings can be gratified: and therefore, as we fee thele means invariably purfued by all animals rational and irrational, without experience and without inflruction, we muft refer the encitual defire of the fexes to a higher principle than mere mechanifm and aflociation; and that principle zan be nothing but inftinct.

Befides thefe, we thint the action of eating may be attributed to inftinct. It is certainly performed by a fportancous exertion of the proper organs; and that evertion is firft made at a time of life when we have no conception of the end which it ferves to accomplifh, and therefore cannot be influenced by motives. It mult indeed be confeffed, that the firt aft of chewing is performed by a child, not for the purpofe of mafticating food, but to quicken the operation of nature in the cutting of teeth: and perhaps it may be faid, that the pleafing fenfation of rafe, which is then firf experienced, and afterwards remembered, prompts the child to continue at intervals the exertion of chewing after all his teeth are cut; fo that though the act of eating is not performed with a view to the maftication of food or the nourifhment of the body, it may yet be performed, not from any inftinctive impulle, but merely from an early and deep-rooted affociation. But in andwer to this it is fufficient to afk, Who taught the infant that the act of chewing would quicken the operation of nature in the cutting of teeth? Not reafon, furely, nor experience; for an infant knows nothing of teeth or the manner in which they grow: and if it be granted, that for this purpofe it was originally impelled by fome intermal and myfterious influence to perform the action of chewing, we are not inclined to deny that the operation may be continued for other purpofes by means of affociation.

In human works, though laboured on with pain, A thoufand movements fcarce one purpofe gain;
In God's, one fingle can its end produce,
Yet ferves to fecond too fome other ufe.
This is found philofophy confirmed by obfervation and daily experience : but though in the works of God, one principle produces many confequences, and though perhaps there is not a principle which falls under our cognizance more fruitful than that of affociation, yet if it be not fufficient to account for the fir $/ \mathrm{a}$ af of chesing, we cannot refer to it alone as to the fource of that operation. Should it be faid, that the gums of an infant arc at the period of cutting teeth fo irritable, that the moment any thing is applied to them the jaws perform a motion merely automatic, which we miftake for the fpontaneous effect of infinct; ftill we would ads, What prompts the child to apply cuery thing to its mouth? Does the irritation of the gums contract the
mufcles of the arm? By a bigct for mechanifm this Infine? might be faid, were it true that the arm of an infant, like a piece of clock-work, is always !o regularly moved as to bring is hand directly into contact with its gums: but this is tar from being the cale; an infant makes many unfuccelsful efuits io rach its mourt, and does not accomplish its pupofe till after repeated trials. Perhaps it may be alleged (for when men adopt a favourite hypothefis they will ailege any thing in its fupport), that infants are taught to cary things to their mouths by the pleating ferfation received from the application of their nurles breafls, and continue the practice from habit and allociation. But it is certain that they do rot begin this practice till teeth are forming in their gums; and then they ufe fuch things as they themfelves cany to their mouths very differently from the breafts of their nurfe: they conftantiy chew and bite their rattles, though they very feldom bite their nurfes. As this practice cannot be begun from a principle of affociation, fo it appeats to us that it cannot be continned upon fuch a principle. Were the fenfation experienced by an infant when chewing a hard fubftance a pleafing fenfation, the remembrance of the pleafure might as a motive prompt it to repeat the operation: but it is obvious, that by preffing a gum, through which a tooth is making its way, againft any thing hard, the infant muft experience a painful fenfation; and therefore the influence which impels it to continue this operation, muf be fomething more powerful than pleafure or pain.

Thefe three actions, then, by which infants fuck, by There m which they chew their food, and by which mankind be other are propagated, have undenjably their origin in in- actions is find. There may be many other human actions ftinctive, which derive their origin from the fame fource; but $\begin{aligned} & \text { which it } \\ & \text { imbl }\end{aligned}$ in a flate of civil fociety it is very difficult, if not to diftin. impofible, to diftinguiih them from the effects of early guin fre habit.

Such, however is the prefent impatience of that la of habit. bour without which effects cannot be traced to their caufes, that every phenomenon in human nature, which to former philofophers would have occafioned difficulty, is now thought to be fufficiently occounted for by referring it to fome inftinct as its particular caule; and he who can provide himfelf with a fufficient number of thefe inftincts, for the reality of which he offers no proof, feats himfelf in the philofopher's chair, and dreams that he is dictating a fyltem of fcience, whilit he is only retailing a collection of anecdotes. A phi- Actions lofopher of this fchool has lately carried the doctrine roneoul? of inftinctive principles fo far, as to attribute the fu-atribute periority of man over the other animals, chichy to the ${ }^{\text {o intin }}$ great number of inftincts with which his mind is endowed ; and among thefe he reckons (not, we believe, as characteriftic of our feecies in contradiftinction to other animals, but as part of the inftinctive bundle in the largenefs of which our fuperiority confits) "the voiding of urine and excrement, fneczing, retraction of the mufcles upon the application of any painful ftimulus, the moring of the cyelids and other parts of the bods." . Thefe (he fays) are effects of original inftincts, and effential to the exiftence of young animals. With this writer inftinct is fometimes reprefented as looking into futurity, and acting upon motives which have hitherto been confidered as the province of reafon and the characteriftic of
man: here the fame inftinct is confounded with irritation a:ad mechanifm; and if this mode of philofophifing continue in fathion, we thall not be furprifed to and men, beafts, birds, and vegetables, conlidered by fome other writer as nothing more than different fpecies of the fame genus of beings, that are all actuated by the great and univerfal principle of indtinct. If freezing and the retraction of the mufcles upon the application of any painful timulus be actions of inatinct, there cannot be a dout, upon the received principles of philoophy, but that the contraction of the leaves of the fenitive plant upon the a $a_{1}$, lication of any fimulus proceeds likewife from infinct: nay, a piece of leather muft be endowed with inftinct : for it too retrants upon the application of the painful ftimulus of fire. All thefe are evidently fimilar effects produced by the fame or fimilar caufes; for in the operations of fneezing and retracting the mufcles upon any painful application, there is not the leat fpontaneous exertion on our part, no co-operation of mind more than in the contraction of the leather and the plant. With refpect to the voiding of urine and excrement, it is obvious, that at firft thefe operations are performed without any effort of fpontaneity; and that a voluntary power over the mulcles which are fublervient to them is very gradually acquired. Urine and excrement irritate the bladder and guts, which are fupplied with branches of the fame nerves that fuoply the abdominal mufcles. But it is well known that the irritation of one branch of a nerve brings on a contraction of the mufcles which are fupplied by the other branches. Urine and excrement therefore are evidently expelled by the mechanical contraction of the organs of excretion; and to attribute thefe evacuations to inffinct, is equally abfurd as to fay, that water or any other foft fubftance pent up in a veliel. and preiied equally on all fides, makes its efcape ty infing through the eafietl pallage. It is dificult to guefs what the author means by the inflinctive motion of the eyclids and other parts of the body. There is a motion of the eyelids which is voluntary, and another which is involuntary. The former proceeds from fome motive, to exclude too great a glare of light, or to guard the eye againtl a forefeen mifchief, and is therciore the refult of reaion as diftinguifhed from inflinet: the latter is obvioully the effect of affociation, which took place in early infancy and produced a habit. Infants for feveral days after birth do not wizk with their eges upon the approach of one's hand or any ohe: fubtance; but after having experienced pain from too much light or anv other thing which hurts the eye, and that pain having at firt produced an antomatic motion of the eyelids, the xriotion comes in time to be fo clofely affociated with its caufe, that the very appearance of the latter produces the former. In all this there is no infinct, nor any thins which refembles inflinet : in the one cafe, the motion of the eyelids is in the flricteft fenfe voluntary ard rational; and in the other, it is either autom :tic or the effect of habit.
" The love of light (fays the fame writer) is exhibited by infants at a very early period. I have remarked evident fymptoms of this attachment on the third day after birth. When children are farther advanced, marks of the various pations generally appear. The pafion of fear is difcóverable at the
age of two months. It is called forth by approach- Infinct. ing the hand to the child's eye, and by any fudden motion or unufual noife." It has likessife been faid, that "an infant may be put into a fright by an angry countenance, and fonthed again by frites and blandilhments;" and "that all thele are cales of pure inftinct." In reply to which, we feruple not to afo fert with Dr Prietlley, that an infant (unlefs by an infant be meant a child who has a good deal of experience, and of courle has made many obfervations on the connections of things) " is abfolutely incapable of terror. I am pofitive (fays he), that no child ever thowed the leat fymptom of fear or apprehenfion till he had actually received hurts and had felt pain; and that childreas have no fear of any particuliar perfon or thing, but in confequence of fome connection between that perfon or thing and the pain they have felt. If any inflinet of this kind were more neceffary than another, it would be the dread of firc. But every body mutt have oblersed, that infants thow na fign of any fuch thing; for they will as readily put their finger to the flame of a candle as to any thing elfe, till they have been burned. But after fome painfu! experience of this kind, their dread of firc, though undeniably the effect of aflociation, becomes as quick and as effectual in its operations as if it were an original inflinctive principle." We moreover do not hefitate to fay, with the fame great philofopher, th:i if it were polible always to beat and terrify a child with a placid countenance, fo as never to affume that appearance but in thofe circumflances, and always to foothe him with what we call an angry countenance, this connection of ideas would be reverfed, and we thould fee the child frightened with a frile and delighted with a frown. In fact, there is no more reafon to believe that a child is naturally afraid of a frown, than that he is afraid of being in the cark; and of this children certainly difcover no fign, till they have either found fomething difagreeable to them in the dark, or have been told that there is formething dreadful in it.

The truth of thefe obfervations is fo obvious, that we doubt not but they will carry convidion to the mind of every reader. For though it flould be granted, that fo early as on the third day after birth children exhibi: fymptoms of uneafinefs upon the fudden exclufion of light, it would by no means follow that the love of light is in them inflinctive. Light operates upon the eye by contact, and communicates to the infant a fenfation of touch. If that fenfation be pleafant, the child mult neceffarily feel fome degree of uneafinefs upon its removal, juft as a full grown man muft feel uneafy upon being deprived of any poftive pleafure. But is fenfation, or pleafire, or the renroval of pleafure, pure inftinit? No, furely.

Thus difficult is it to fay in many cafes what actions have their origin in inftinat, and what are merely the effects of early affociation. But we think it may be fafely affinned, that no ation, whether of man or brute, which is deliberately performed with a view to confequences, can with any propriety he fail to procced from inftinct; for fuch actions are the cffect of rcafon infiuenced by motives. Deli'jeration and infting are obvioufly incomnatible. To fay with the author of the Philofophy of Natural Hiftory, "that, when we are fime$\mathrm{N}_{\mathrm{n} 2}$
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Inftinc. luted by a particular indinct, inftead of inftantly obeying the impulfe, another inflinet arifes in oppofition, creates helitation, and ofien totally extinguithes the original mobrev to action," is either to athirm what is apparently not true, or it is a grofs perverlion of language. Msives oppofed to each other may create hefitation, and a powerful motive may counterbalance a feeble inftinct; but of two or more inflinets operating at the fame time, and oppoling each other, we have no conception. Infinct, if we choofe to fpeak a language that is inteliigible, means a certain impulle under the direction of Supreme Wifdom; and it is very little probable that fuch wifdom thould give oppofte impulfes at the fame inflant. In the natural worls of animals, which are confeffedly under the influence of intlinet, we perceive no fymptoms of deliberation; but every one, when not interrupted by external violence, proceeds without hefitation in the direct road, to an end of which the animal itelf knows nothing. The fame would be the cafe with man were he under the guidance of inflinet: and it is vain to fay that the inftinct of fear is daily counteracted by ambilion and refentment, till it be proved that fear, ambinion, and refeniment, are really inftinets. Of this, however, the author feems to have no doubt. Indeed his work is fo liberally flored with thefe principles, fo ufeful to every man who wifhes to acquire the name of a philofopher without the labour of invelfigation, thit not only fear, amilition, and refonment, but even fiperfition, devotion, refpect for eminent characterc, avarice, hope, enzy, benevolence, and fympalhy, are all, in his opinion, infincts fimple or modified. The origin of fear we have already feen when exanining the inftincts faid to exhioit themfelves in early infancy: let us iry if we cannot trace fome other individuals of this numerous family to the fame fource of carly affociations.

The cale then feems to be as follows. TVe firl perceive or fuppofe fome real good, i. e. fome fitnefs to promote our happinefs, in thofe things which we love or defire. Hence we annex to thofe things the idea of pleafure: with which they come, in time, to be fo clifely affociated in our minds, that they cannot ever atier prefent themfelves without bringisg that idea along with them. This affociation likewife often remains even after that which firf gave rife to it is quite furgotten, or perhaps does not cxilt. An inftance or iwo will make this very clear. No man can be born a lover of money; for in a ltate of nature money exififs not : no man thercfore can be born with our author's inflinet of avarice, direded in the manner which the molt common acceptation of that word denoies. Yet how many men are there in the world, who have as flrong a defire for rancy as if that define were innate and inffinctive; who account fo much money fo much happinets; and who make the mere poffetion of gold and filver, without any thought or defion of uling them, the ultimate end of all their actions? This is not becaufe the love of noney is born with them, for that is impolfible; but becaufe they firft perceive a great many advantages from the pofertion of money, whence they conceive a pleafure in having it. Heace they defire it, endeavour to obtain it, and fecl an actual pleafure in obtaining and poffefing it. Then, by dropping the intermediate fleps between money and happinefs, they join money and happinefs imementy togethes, and coatent themelucs with the
fantatic pleafure of having it; making that which was Intine? at firlt purfued only as means, be to thenz an ultimate end, in which contiats their happinels or mifery. 'The fame might be obferved concerning the thirit after knowledge, fame, ambition, and molt of the various purfuits of life. Thefe are at firlt entered upon with a view to fome farther end, but at length become habitual exercifes; with which the idea of pleafure is fo clofely affociated, that we continue the purfuit after the reafon from which it was at firlt begun has entirely vanihed from our minds. Hence alfo we may account for another of our author's modified ingfincis, the almofl diabolical feeling of enzy. Mr Locke obferves, that there are fome men entirely unacquainted with this paflion. His obfervation we believe to be a juf one; for moll men that are ufed to reflection, remember the time when they were firf under its influence; and though they did not, it is a thing very little likely that the beneficent Author of nature fhould have implanted in the human mind even the feeds of an inftinet, which, in the emphatic language of the Rambler, " is mere unmixed and genuine evil." Enry is that pain which .arifes in the mind upon obferving the fuccefs or profperity of others; not however of all others indefiniteiy, but only of thofe with whom, upon fome account or other, the envious perfon has once had a rivallhip. But of fuch a feeling the origin is obvious; for when two or more perfons are competitors for the fame thing, the fuccefs of the one neccfarily tends to the detriment of the other: hence the fuccefs of the one rival is in the mind of the other clofely affociated wion pain or mifery $:$ and this affociation remaining after the rivalhip which occafioned it has ceafed, the perfon in whofe nind envy is thus generated, alrays feels pain at the fuccefs of his rival even in affairs which have no relation to the original competition. Thas it is, that we are apt to envy thofe perfons who rcfule to be guided by our judgments, or perfuaded by our arguments: For this is nothing elfe than a rivallhip about the fuperiority of judgment; and we take a fecret pride, both to let the world fee, and in imagining ourfelves, that in perlpicuity and frength of judgment we have no fuperior.

Though the principle of affuciation will be morc fully explained in another place, there is one obfervation which muf not be omitted here; it is, that we do not always, nor perliaps for the moft part, make thefe afociations ourfelves, but learn then from others in very early life. We annex happinefs or mifery to certain things or actions, becaufe we fee it dune by our parents or companions; and acquire principles of action by imitating thofe whom we elleem, or by being told, by thofe in whom we have been taught to place confidence, that fuch conduct will promute our happinefs, and that the reverle will involve us in mifery. Hence the fon too often inherits both the vices and the virtues of his father as well as his eflate; hence national virtues and vices, difpofitions and opinions; and hence too it is, that habits formed before the period of diltinct remembrance are fo generally millaken for natural inftincts.

From the whole then of this invertigation, we think ourfelves warranted to conclude, that there is an effen-ral, ratin tial difference between mechanifm and inflinct, and be-sive, and :ween both and r.afon; that mankiad perform actioas autcmati
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by each of thefe principles, and that thufe actions oughe to be carefully diftinguihed, and though the human mind is unqueltionably endowed with a few infinets necellary to the prefervation of the individual and the propagation of the race, that by far the greater part of thofe actions which are commonly faid to pro- ceed from indinct are mereiy the effects of carly habits. We are likewile of opinton, ilat the prefent fathionable mode of referring almof every phenomenon in human nature to a particular inftinct as its ultimate caule, is hurtful to fcience, as tending to check all further inquiry ; and dangerous in morals, as making people inmplicitly follow, as the dizates of nature and nature's God, the abyurd, fuperfitious, or inipious cufloms of their refpective countries.

INSTITUTES, in literary hillory, a book containing the elements of the Roman law.

The inflitutes are divided into four books; and contain an abridgment of the whole body of the civil law, beirg defigned for the ufe of fludents. See L.Aw Index.

Institite, in Scots Law. When by difpofition or deed of entail a number of perfons are called to the fucceflion of an eftate one after another, the perfon firt ramed is called the infisute, the others fubfitutes.

Shiona! Instifuts of France, was founded by a decree of the new conititution, and opened on the 7 th of December $\mathbf{1} 595$. 'The abolition of royalty naturally fuggerted to the new rulers of France, that it would likewife be proper to abolilh every thing which had the remoteft connesion with it. Condorcet therefore propofed that the feven old academies, fuch as thofe of fciences, of infciptions, \&zc. which had the term roual prefised to the whole of them, fhould give way to the effabliliment of one new academy of arts and fciences, under the tille of the Vational Infinute.

The acadeny, or inflitute, is to confilt of 288 members, the half of whom are to have their refidence in Paris, and the reff in the diflerent departments, with 24 foreign members.

This academy is divided into three clafies; thefe are divided each into three fections, and each of thele again is to conliil of 12 members.

The firfl clafs confits of 10 lections, which are to prefide over mathematics, mechanical arts, aftronomy, experimental philofophy, chemiltry, natural hifory, botany, anatomy and animal hiftory, medicine and furgery, arimal economy, and the veterinary fcience.

I'he ficond clafs has morality and politics for its departmert, and confifts of fix fections, viz. analy fis of fenfations and ideas, morals, legillature, political economy, hiliory, and geograply.

The third clafs prefides over literature and the fine arts, confifting of eight fections, viz. univerfal grammar, ancicnt languages, poetry, aniiquities, painting, fculpture, architedure, and mufic.-Several volumes of memoirs have been publifhed by each of the claffes.
'The hall in which the whole claffes hold their meetings four times a year, forms part of the well wing of the old Louvre, which was erected about the year 1528. It meafures 144 feet by 40 , and is capable of accommodating upuards of 1000 perfons.
'I'he fehools of national inftuction may be confidered as forming a part of the fame inftitioisn. Ithere are,

1. The primary fohools, one of which is efabintited in zafinution every dilfrict, where children are taught the arts of reading and writing, the elements of French graminar,

Iufular. of arithmetic and geonictry, \&c. 2. Whe central fehools, fituated in the capital of every department, and one is allowed for every 300,000 inhabitants. 3. The fchools of health, which are three in number, where medicine and furgery are fludied. 4. Two fchools for oriental languages. 5. The polytechnic fcliool in Paris for the direstion of public works, an eflablilhment which is generally adnuired. 6. The national inflitute, of which we have already given fome account.

The executive departmeat of all thefe is vefted in at fupreme council at Paris. For the comnodicus execution of fo many complicated branches, there is an extenfive office called $L e$ Secretariat, which is divided into three departments, for the regulation of the different kinds of inftruction, for weights and meafures, and for theatres, national fealts, the erection of monuments, \& $c$.

By means of a permanent committee of infruction, under the authority of government, many improvements of a literary and fcientific nature bave been made, fuch as the National Bibliography, or complete catalogue of boo's of all deferiptions ; the annihilation of all dialeets, which were incredibly numerous in France; the eftablifhment of the Confervaioire des Arts et liétiers; of the board of lonpitude, the general fchool of the oriental languages, the national mufeum of antiquities, the new-modeliing of the grand national librury, the augmentation of the mufeum of natural hilfory, the ecole des mines, and the fociety of natural hiftory in Paris.

INSTITUTION, in general, fignifies the eftablifhing or founding fomething.-In the canon and common law, it fignifies the invelting a clerk with the fipritualities of a rectory, \&c. which is done by the bihop, who ufes the following formula: "I inftitute you rec. tor of fuch a church with the curc of fouls, and receive your care and mine."

Institutions, in literary matters, dencte a fyftem of the elements or rules of any art or feience.

Thus phyfical or medicinal inttitutions are fuch as teach the neceffary precognita to the practice of medicine, or the cure of cifeafes.

INSTRUNENT, in general, whatever is fublerwient to a caule in producing any effect.

Mathemaical, Philofophieal, \&c. Instrumenes. See Astronomy, Electricity, Geonhtry y, Levelince, Mifchanics, Optics, Psebmatics, \&ic. \&c.

Instrumest, is alio ufed in law, to fignify fome public act, or authentic deed, by means whereof any truth is made apparent, or any right or title eftablighed, in a court of juitice.

Notoriat Instrument, in Scops Laze, any fact certified in writing, under the hand of a notary-public.

INSUBRIUM ager, in Ancient Geography, a diftrizt of the Tran!padana; fituated between the 'IIcinus to the wefl, the Iddua to the eaft, the Padus to the fouth, and Orobii to the norils. Tlie people called $I n$ fulres by Livy, Infulri by Ptolemy, and Ifumbres by Strabo. Now the duchy of Milan.

INSULAR Any thing belonging to an illand.Infular fituations are productive of many happy confegucaces to the iombitants, both rith: efyest:o the eli-

19fuated, sate, fecurity, and convenience for commerce; for a $\underbrace{\text { Iniurance. particular account of which, fee Istand and Coast. }}$

INSULATED, in Architecture, an appellation given to fuch columns as fand alone, or free from any contiguous wall, like an illand in the fea; whence the name.

Insulated, in elcetrical experiments. When any loody is prevented from communicating with the earth by the interpofition of an electric body, it is faid to be infulated. See Electricity Index.

INSURANCE, in Law and Commerce, a contract, whereby one party engages to pay the lofles which the other may futain, for a flipulated premium or confidesatio:s. The moft common forts are, Infurance againt the dangers of the feas, infurance againft fire, infurance o! debtc, and infurance of lives.

According to Beckmann, the olden laws and regulatior.s refpecting infurance, are the following.

On the 23th of January 1523, five perfons who had received an appointment for that purpofe, drew up tome articles at Florence, which continue to be employed on the exchange at Leghorn. Thefe interefting regulations, and the prefcribed form of policies, which are deemed the oldeft, were inferted by Magens. in his treatife on infurance, publifhed at Hamburgh in Italian and German, in the year 1753.

A Mort regulation of the 25 th May 1537, by the en:peror Charles V. refpecting bills of exchange and infurance, is till preferved, in which even the fulilling of an agreement is frictly commanded.

In the year 1556, Philip II. of Spain gave the Spawiih merchants certain regulations refpecting infurance, which Magens has inferted in the fore-mentioned work. They contain fome forms of policies on fhips going to the Indies.

The chamber of infurance was eftablifhed at Amiterdam in 1598, an account of the firlt regulations of which office was publifhed by Pontanus, in his hiftory of that city.

Regulations refpecting infurance were formed by the city of Middleburg in Zealand, in the year t 600 ; and it appears that the firft regulations refpecting infurances in England, were made in the following year. We find from them, that infurers, prior to this period, had fecured the confidence of the public fo completely, by the honefty and relitude of their conduet, that ferv oc-

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Invens.
vol. i. $3^{92}$. cafions for difpute had arifen*.
I. Insurance againft Lofs at Sea, is a mof beneficial inflitution, for promoting the fecurity of trade, and preventing the ruin of individuals; and is now conducted by a regular fyftem of rules, eftablifhed by the interpofition of the legillature, the decifion of the courts of jutice, and the practice of merchants.

It is carried on to the beft advantage by public companies, or by a confiderable number of private perfons, each of whom only engages for a fmall fum, on the fame veffel. There are two public tompanies eftablifhed by authority of parliament, viz. the London and Royal Exchange Infurance Companies. For procuring fubfcription by private perfons, brokers are generally employed, who extend the policy or contract of infurance, and affit at fettling loffes. They are entitled to an allowance for their trouble, generally 5 per cent. on prereinms, and 2 per cent. on loffes.

The parties who engage to pay the damage are call- Infuran ed the infurers or underuriters: the parties for whofe fecurity they engage are called the infured; and the premium is underftood to be paid when the infurance is made.
On this fubject, we flall confider, What is neceliary to render an infurance valid :- When the rikn commences, and when it terminates:- What conflitutes a total or a partial lofs:-What proof of lofs is neceffary :and, How the lofs is adjufted.

Firft, In order to render an infurance valid, the infured mult have property really at ftake; the voyage muft take place under the circumftances agreed on; the dangers infured again!t muft not be contrary to lav, and a candid account mult be given of circumftances which enhance the danger.

1. The condition of poffeffing property was required by 19 Geo. II. c. 37. to prevent lhips from being fraudulently dellroyed when infured above their ralue; and to difcourage a practice which had become common, of converting policies to the purpofe of mere wagers. In tranfactions of this kind, as the infured had no property, and could claim no indemnification for partial damage; fo the infurers, baving loll their wager by the fhip's being loft, could claim no abatement, though part was faved: accordingly, the policies contained claufes of intereft or no intereft, free from average, and without benefit of falvage. All fuch policies are deelared invalid.

This refriction does not extend to privateers, nor to thips trading to the Spanith or Portuguefe plantations.

Infurances are cormmonly made as interef hlall ap. pear; and it is incumbent on the infured to prove the value of his property. The value of the goods may be proved by the invoices; and the coquet mult be produced, if required, to inftruct that the goods were actually thipped. It is admitted to value the thip at prime coft and charges, deducting the freights that have been drawn fince purchafed, if the proprietors choofe to ftand to that rule; but they are not reltricted to it. Sometimes the value of the fhip or goods is expreffed in the policy; and this value inuft be admitted, although it be higher than the true one: but it is incumbent on the infured to prove that he had property at take; and, if the property be trilling in comparifon of the fum infured, the infurance will be fet afide, as an evafion of the flatute.

Expected profits, and bounty on the whale fifhery. if fpecified in the policy, may be infured.

When the value is lefs than the fum infured, the owners may claim a return of premium for the excels.

If there be feveral policies on the fame fubject, of different dates, the earlieft one is valid, and the others mult be vacated. If they be of the fame date, they muft be vacated in equal proportions.

When a policy is vacated, in whole or in part, the underwriters have a right to retain $\frac{1}{5}$ per cent. for their trouble.

In the cafe of a cargo intended for $A$, but afterwards fent to $B$, both expected it, and infured, and $\mathbf{B}$ claimed for the value on its being loft. The underwriters anfwered, that it was a double infurance, and they ought only to pay their proportion. Judgment

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of it. If a fhip be fpoke to leaky at fea, or if there be Infuranace, a report of its being loft, thefe circumftances mult be communicated to the infurers. Even the concealment of a falfe report of lofs vitiates the infurance; and, if the fhip be afterwards loft, though in a different manner, the infured will recover nothing. In a rogage from Carolina to London, another hiip had failed ten days after that which was infured, and arrived feven days before the infurance was made; and the concealment of this circumftance, though the fact was not proved to the fatisfaction of the jury, was confidered as fufficient to fet it afide. Alfo, during the continuance of the American war, a hhip being infured from Portuga!, by the month, without condefcending on the voyage, failed for North America, and was taken by a provincial privateer. The infurers refufed to pay, becaufe the hazardous deftination was concealed; and it was only upon proof of the infured being equally ignorant of it that they were found liable.

But the infured are not obliged to take notice of general perils, which the infurers are underftood to have in contemplation; dangerous navigation, Weft Indian hurricanes, enterprifes of the enemy, and the like.

Infurance is not fet afide by a mifake in the name of the fhip or mafter, or the like.

Infurance may be made on an uncertain hip; on any fhip that the goods may be loaded on; on any thip that A flall fail in from Virginia. In this laft caie, the policy is not transferred to a fhip which A goes on board during the royage.

Secindly, If a hip be infured at and from a por, the infurance commences immediately if the hip be there, or at its arrival there. If it be damaged when preparing for a voyage, the infurers are liable; but not if the royage be laid afide for feveral years, with. confent of the owners. Infurance from a port commences when the thip breaks ground; and, if it fet fail, and be driven back and loit in the port, the infurers are liable.

Infurance on goods generally continues till they be landed; but, if they be fold after the Mip's arrival, and freight contra\{ted to another port, the infurance is concluded. Goods fent on board another thip or lighter are not at the rilk of the infurer; but goods fent alhore in the long boat are.

Infurance on freigh: commences when the goods are put on board.
Goods from the Eaft Indies, infured to Gibraltar, and to be refhipped from thence to Britain, were put on board a flore-hip at Gibraltar, to wait an opportunity of reflipping, and were loft: The cultom of putting goods aboard a flore-thip being proved, the infurers were found liable.
Lofs of fails aftore, when the thip is repairing, is comprehended within the infurance. What is necefinrily underfood, is irfured, as well as what is exprefied ; the effential means, and intermodiate fleps, as well as the end. Ships performing quarantine are at the rifk of the infurer.

Thirdiy, The infurers are liable for a total lofs when the fubject perifhes through any of the peril: infured againt. Barratry, though it properly figtrilies rumning away with the fthif, extends to any kind of fraud is
$\underbrace{2 \text { intinarace }}$ the malter of mariners. Infurańce againft detention of princes does not extend to lhisp that are feized for tranfgrefling the laws of foreign countries.

The infuress are alfo liable for a total lofs, when damage is fuftained, and the remaining property abandoned or vefted in the infurers.

If a thip be ftranded, or taken, and kept by the enemy, or detained by any foreign porver, or feized for the fervice of the government, the proprietors have a right to abandon.

But, if a ftuip be taken by the enemy, and be retaken, or makes its efcape, before action againft the infurers; have the infured a right to abandon, or mult they only claim for the damages fuftained as an average lofs? There are oppofite decifions, according as the circumftances of the cafe were ftrong. When the thip was long detained, the goods perifhable, the voyage entirely loft, or fo difturbed, that the purfuit of it was not wortl the freight, or when the damage exceeds half the value of the thing, they have been found entitled to abandon; Gofs againft Withers, 2 Burrow, 683 .). But, if the voyage be completed with little trouble or delay, they are not entitled; (Hamilton againlt Mendez, 2 Burrow, 1198.).

The infured cannot claim, as for a total lofs, on an offer to abandon, when the lofs is, in its nature, only partial; for, if this were permitted, they might devolve the lofs occafioned by bad markets on the infurers.

And, in all cafes, the infured have their option to abandon, or not. They may retain their property if they pleafe, and claim for an average lofs; and they mult make their option before they claim.

If the goods be fo much damaged, that their value is lefs than the freight, the infurers are accountable as for a total lofs.
The infurers are liable for general average, when the property is charged with contribution ; and for particular average, when the property is damaged, or part of it deftroyed.

If the damage be funtained through the fault of the hiip, the owners of the goods may have recourfe, either againf the mafter or infurers; and, if the infurers be charged, they ftand in the place of the owners, and have recourfe againft the matter.

In order to prevent the infurers from being troubled with frivolous demands for average, it is generally ftipulated, that none flaill be charged under; per cent. or fome other determined rate; and corn, Hlax, fruit, fifl, and like perifhable goods, are warranted free from average, unlefs general, or the flip be itranded.

In order to encourage every effort to fave the hhip, the infurers are liable for charges laid out with that defign, although the fubject perill. Thus, they may be charged with more than the fum infured.

In cafe of goods being damaged, the proportion of the fum infured, for which the underwriters are liable, is regulated by the proportion of the prices which the found and damaged goods fetch at the port of deftination. The prime coit of the goods is not confidered, nor the uncelfity of immediate fale, in confequence of damage. Although the damaged goods fell above prime coff, the infurers are liable.

Fourlily, If a hlip be loft, and the crew faved, the lo $r_{5}$ is proved by the evidenice of the crew.

If damage be fuftained, the extent is proved by an Jrifurar examination of the fubject damaged, at the thip's ar. $\underbrace{-}$ rival; and the caufe by the evidence of the crew.

If the hip be ftranded, evidence muft be taken at the place where iftranded.

Documents of lofs muft be laid before the underwriters, with all convenient fpeed; and, if thefe be fufficiently clear, the lofs fhould be immediately fettled. The underwriters generally grant their notes at a month or fix weeks date for their proportions.

If a flip be not heard of for a certain time, it is prefuned loft ; and the underwriters are liable to pay the fums iufured, the property being abandoned to them in the event of the thip's return. Six months ate allowed for a voyage to any part of Europe, a year to Annerica, and two years to the Eaft Indies.

By the ordinance of Hamburgh, if a flip be three months beyond the ufual time of performing a voyage, the underwriters may be defired to pay 92 per cent. on an abandon. If they decline it, they are allowed i4 months more, and then they muff pay the full value.

A fhip infured againft the hazards of the fea, but not againft the enemy, if never heard of, is prefumed loft at fea.

Fifibly, In order that the manner of fettling loffes may be underfood, we muft explain what is meant by covering property. We menticned already, that infurances for greater fums than the infured had really at ftake, were contrary to law: but fome latitude is allowed in that refpect ; for if the owner were to infure no more than the exact value of his property, he would lofe the premium of infurance, and the abatement, if any was agreed on.

For example, if he has goods on board to the value of rocl. and infures the fame at 5 per cent. to abate 2 per cent. in cafe of lofs; then, if a total lofs happen, he recovers 981. from the infurers, of which 51. being applied to re-place the premium, the nett fum faved is only $93^{1 .}$; but, if the value on board be only 931. and the fum infured 1001 . he would be fully indemnified for the lofs; and his property, in that cafe, is faid to be covered.

To find how much fhould be infured to cover any fum, fubtract the amount of the premium and abatement (if any) from 1001 . As the remainder is to $\mathbf{1 0 0 1}$. fo is the value to the fum which covers it.

In cafe of a total lofs, if the fum infured be not greater than that which covers the property, the infurers munt pay it all. If greater, they pay what covers the property, and return the premium on the overplus.

Partial lufles are regulated by this principle, that whereas the owner is not fully indemnified, in cafe of a total lofs, unlefs he covers his property, therefore he ftoould only be indemnified for a partial lofs in the fame proportion; and, if it be not fully infured, he is confidered as infurer himfelf, for the part not covered, and mun bear a fuitable proportion of the lofs. Therefore the value of the property is proved, and the fum required to cover it computed. If that fum be all infured, the underwriters pay the whole damage ; if only part be infured, they pay their thare, which is computed by the followirg ruit: Is the fum which covers the property is to the fuan infurd, fo is the whole damage to

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werance. the part for which the infurers are liable.- For example, if the value of the property be 3601 . the fum infured 3001. the premium $\delta$ per cent. and abatement 2 per cent. ; then the furn which fhould be infured to cover the property is $4001 . ;$ and, if damage be fuftamed to the extent of 2001 . the owners will recover 1531 .

If a royage is infured ou: and home, the premium outward nutit be confidered as part of the value on the homeward property, and the fum necefìry to cover it computed accordingly. For example, to infure $1=01$. out and home, at 5 per cent. each voyage, abatement 2 per cent. we compute thus:
93 : 100 : : L. 100 : L. $107: 10: 6$, to be infured outward, premium on L. 107:10:6 outwards, at 5 per cent. L. $5: 7: 6: 93: 100::$ L. $105: 7: 6$ : L. 113 : 6s. to be infured home; the premium on which is $1.5: 13: 6$; and, if the thip be loft on the homeward voyage,

II. Instrkance againfl Fire. There aae feveral offices in Britain for this purpufe, of which the Sun fire-office is the moft confiderable. Infurances are divided into common, hazardous, and doubly hazardous, according to the nature of the fubject infured. When the fum infured is ligh, there is a higher premiun par cent. demanded; and money, papers, jewels, pitures, and gulpowder, are not comprehended. If a fubject be wrong defcribed, in orjer that it may be infured at a lower premium, the policy is void. The benefit of a policy is transferred, by indorfement, to the reprefentatives of the perfon in whofe favour it was made; and it may be transferred to other houfes when the infured changes his habitation. If infurance be made on the fame fu'je? in diffrent offic:s, it mu't be fpecified, by indorlement, on the policy; and, in cafe of lofs, the offices pay proportionally. The infurers pay all expences in attempting to extinguilh fire, or fave goods, thoush not fucceffiful. If the value of a fubject be infurcd in part, and famage be futained, the infurers pay the whole, if it does not exceed the fuin infured.
III. Insurance of Debis. See Bottomay.
IV. In virtle of Insurance for Lives, when the perfon dies, a fum of miney becomes payable to the perfon on whofe behalf the policy of infurance was granted. One of the priacipal infurance-offices of this kind, is that of the innica'sle Society for a perpetual infurance, kept in Sarjeant's-inn, Fleot-Preet, Lonton.
This fociety at Serjeant's-inn requires an antual payment of $j^{j}$. from every mamber dari:g life, payabile quartecly. The wrtsic annual incons bence arifing is equasly divided a nong the nominces, or heire, of fuch members as die every year; and this renders the dividensl, among the nominees, in different years, moze or lefs, azcording to the number of members who have hapuened to die in thefe years. Bat this

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fociety engages that the dividends fhall not be lefs than Infuancr 1501 . to each clumant, though they may be more.None are admitited whofe ages are greater than 45, or lefs than 12; nor is there any difference of contribution allowed on account of difference of aye. -This rociety has fubfilled ever fince 1706 , and its credit and ufefulnefs are well eftablilhed. Its plan, however, is liable to feveral objections. Firll, it is evident, that regulating the dividends among the nominees, by the number of members who die every year, is not equitable ; becaufe it makes the benefit which a member is to receive to dcpend, not on the valuc of his contribution, but on a contingency; that is, the number of members that thall happen to die the fame year witis him. Secondly, its requiring the fame payments from all perfons under 45 , is alfo not equitable; for the payment of a perfon admitred at 12 ought not to be more than half the payment of a perlon admitted at 45 . 'Thirdly, its plan is fo narrow, as to confine its ufefulnefs too much. It can be of no fervice to any perfon whofe age exceeds 45 . It is likewife by no means properly adapted to the circumflances of perfons who want to make aflurances on their lives for only one year, or a fhort term of years. For example: the true value of the affurance of 1501 . for five years, on the life of a perfon whufe age is 39, may be found, by the firt rule, to be nearly thrée guineas per annum, fuppofing interefl at 3 per cent. and the prohaliil'ties of the duratio: of human life, as they are given in Dr Halley's Table of O'fervations. But fuch an affuraace could not be made in this fociety without an annual payment of 51 . Neither is the plan of this fociety at all adapted to the circumflances of perfons who stant to make affurances on particular furvivorhips. For example: a perfon poffefled of an eftate or falary, which mult be loft with his life, has a perfon dependent upon him, for whom he defires to fecure a fum of money payable at his death. But he defires this only as a fecurity againt the danger of his dying firft, and leaving a wik, or a parar, with. out fupport. In thefe circumilances he enters himfelf into this fociety ; and, by an arnual payment of 51. entitles his nominee at his death to 1501. In a ferr yeare, perbaps, his nominee happens to die; and haviny then lot the advantages he had in view, le deternines to forfeit his former payments, and to withlraw from the fociety. The right method, in this cate, would have been to have taken from fuch a perfon the true value of the fum aitiured, 6 on the fappofition of non-payment, provided he thould furvive." In this way he "iruld have chofen to contract with the fuciety: and had he done this, he would have paid for the affurance (ixipofing inteteft at 3 per cent. lis age 30 , the age of his nominee 30 , and the values of lives as given by .1. de Moivre) $31.8 s$. in annual payments, to begin inmediately, and to be continued during the joint durati, n of his own life, and the life of his nominee.

The Equitable Socicty for Aflurainces on Lives and Survivorlhipe, which mects at Plackfriars Bridge, is one of the mont important of the dind. It was e.tablithed in the year 1762 , in confequence of propo ls made, and leetures recommendiag the deign, wiach hrad been read by Mr Dodion, author of the Mith.ematical Repoitory. It alfires any fums or revertionary aunuities, on any life or lives, for any number of years, as Will as for tixe whole continuance of the lives; an it

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Irfurarre. in ariy manner that may be beft adaried to the views of the perfons affured. For inftance, any perfons who depertd on incomes which mutt be loft when they die, or who are only tenarits for life in eftates, may, if they rwant to borrow money, be enabled to give fufficient fecurity, by alfuring fuch fums as they want to borrow, and affigning the policy. In the fame way clergymen, and others who hold places of profit, having families whofe fubfiftence depends on the continuance of their lives; fuch as enjoy annuities for the lives of others; any perfon entitled to an effate, legacy, \&c. after another perfon, provided he furvives; hufhands may provide annuities for their wives, if they leave them widows; parents may, by affuring the lives of their children, when infants, till they attain a given age, fecure for them, ftould they live'till that age, fums neceffary for apprenticefhips, \&ic.; perfons apprehenfive of being left without fupport in old age, may here purchafe annuities, if willing to wait for the commencement of the payment of thefe till they are 55 or 60 years of age.

In fine, there are no kinds of affurances on lives and furvivorfhips, which this fociety does not make, following the rules given by the beft mathematical writers on life annuities, particularly Mr Simfen's. In order to gain fuch a profit as may render it a permanent benefit to the public, and enable it to bear the expences of management, it takes the advantage of making its calculations at fo low an intereft as 3 per cent. and from tables of the probabilities and values of lives in London, where, as in all great towns, the rate of human mortality is much greater than it is in common among mankind.

This fociety, finding in the month of June 1777, that their affairs were in a flourihing condition, came to a refolution to reduce their annual premiums onetenth; and they adopted new tables in the year 1782 , founded on the probabilities of life at Northampton, inflead of thole which were framed from the London bills of mortaity. It was afterwards thought proper to make an addition, for greater fecurity, of 15 per cent. to the true value of the affurances, as calculated from the table of mortality at Northampton. To make a fuitable recompenfe to the aflured for the payments they had formerly made, which had been greater than the new rates required, an addition of 11 . ios, was made to their clains for every premium they had paid. The refult of this meafure was, that in 1785 the bufinefs of the fociety was nearly doubled, the fums affured a$m$ unting to 720,0001 . In confequence of a minute inveftigation, the fociety took off the 15 pcr cent. charged on premiums in 1782 , and adjed 11 . per cent. more to the affurer's claims, for every payment made before the 1ff of January 1786. Bufinefs fill increafing, they made another addition of 11. per cent. in 1791 ; and in the fubfequent year a farther addition of 21 . per cent. by which the claims of fuch as affured in 1770 came to be more than doubled, and thofe of a prior date were fill ligher. By fuch integsity and confequent increafe of bufinefs, the lums affured amounted, on the 3 Ift of December $179^{2}$, to the aftonifhing fum of three millions fterling; and evactly three years after, they amounted to about one million more.

The rates of affurance, as reduced to their real values in 1786 , according to which all berinefs is now tranfaled, are the following.

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& \text { I N }{ }^{-} \\
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The other offices in London for the affurances of lives are,

The Royal Exchange Affurance, which was ernpowered to affure lives by virtue of its fecond charter, bearing date the 29th of April 1721 ; the Weftminfter Society was effablithed in 1792, for affuring lives and annuities; and the Pelican Life Office was inftituted in 1797, which makes a new fpecies of affurance, by way of endowment for daughters, when they hise attained the age of 21 years.

Re-Insurance is a fecond contract, made by any infurer, to transfer the rifk he has engaged for to another. It is in general forbidden by 19 Gco. II. c. 37 . but is permitted to the reprefentatives of an infurer in cafe of his death, or his affignees in cafe of his bankruptcy; and it muft be mentioned in the policy that it is a reinfurance.

INTAGLIOS, precious flones on which are engraved the heads of great men, infcriptions, and the like; fuch as we frequently fee fet in rings, feals, \&c.

INTEGER, in Arichmetic, a whole number, in contradiftinction to a fraction.

INTEGRAL, or Integrant, in Philofopliy, appellations given to parts of bodies which are of a finilar nature with the whole: thus filings of iron have the fame nature and properties as bars of iron.

Bodies may be reduced into their integrant parts by triture or grinding, limation or filing, folution, amalgamation, \& c. See Grindivg.

Integral Calculus, in the new analy fis, is the reverfe of the differential calculus, and is the finding of the integral from a given diferential ; being fimilar to the inverfe method of turions. See Fiuxions.

INTEGUMENTS, in Anaromy, denote the common coverings which invell the body; as the cuticula, cutis, \& c. See ANatomy.

Istegument is alfo extended to the particular membranes which inveft certain parts of the body; as the coats or tunics of the eye.

INTELLECT, a term ufcd among philofophers, to fignify that faculty of the foul ufually called the underPanding. See Logic and Metaphysics.

INTENDANT, one who las the conduet, infpection, and management of any thing. See Supertistendant.

This is a title frequent among the French: they have intendants of the marine, who are ofticers in the fea-

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niendmert ports, whofe bufnefs it is to take care the ordinances
Intercer and regulations relating to fea affairs be oberved: intendants of the firances, who have the direction of the revenues: intendants of provinces, who are appointed by the king to take care of the adminitration of jultice, policy, and fances in the province: alfo intendants of buidings, of houfes, \&ic.

INTEND IIENI, in Lave, is the intention, defign, or true meaning, of a perfon or thing which frequently fupplies what is not fully expreffed; but though the intent of parties in deeds and contracts is much regarded by the law, yct it cannot take place againft the rules of law.

Infendment of Crimes; this, in cale of treafon where the intention is proved by circumflances, is punifhable in the fame manner as if it was put in execution. So, if a perfon enter a houfe in the night-time, with an intent to cornmit burglary, it is felony; alfo, an affault, with an intent to commit a robbery on the highway is made felony, and punifhed with tranfportation, 7 Geo. 11. c. 21.

INTENT, in the civil law, fignifies to begin, or commence, an action or procels.

INTENTION, in MIedicine, that judgment or method of cure which a phyfician forms to himlelf from a due examination of fymptoms.

Intentios, in Phyfics, the increafe of the power or energy of any quality; as heat, cold, \&c. by which it flands oppoled to remifion, which fignifies its decreafe or diminution.

Intention, in iFetaphyfics, denotes an exertion of the intellectual faculties with more than ordinary vigour ; when the mind with earneftnefs fixes its view on any idea, confiders it on all fides, and will not be called off by any folicitation.

INTERAMNA, in Ancient Geograpliy, fo called from its fituation between rivers, or in an illand in the river Nar; a town of the Cifapennine Umbria. Interamnates the people; furnamed Nartes by Pliny, to diftinguilh them from the people of other Interamnæ. Now Terni: a town in the pope's territory in Umbria. E. Long. 13.38 N. Lat. 42.40.

Interanina, a town and colony of the Volfci in Latium, on the confines of Samnium, at the conlluence of the rivers Liris and Melpis; and for diftincrion fake called Lirinas. The town is now in ruins.

Interamina, or Interamnia Pretutianorum (Ptolemy); a town in the territory of the Prærutiani, a part of the Picenum. Now Teramo, in the Abruzzo of Naples. E. Long. 15. N. Lat. 42.40.

1NTERCALARY, an appellation given to the odd day inferted in leap-year; which was fo called irom calo, calare, " to proclaim," it being proclaimed by the priefts with a loud voice.

INTERCATIA, in Ancient Geography, a town of the Vaccrei in the Hither Spain. Here Scipio Emilianus flew a champion of the barbarians in fingle combat ; and was the firft who mounted the wall in taking the town. It was fiturted to the fouth-ealt of Afturia; now faid to be in ruins.

INI'ERCESSION (interce $\sqrt{10}$ ), was ufed in ancient Rome, for the act of a tribune of the people, or other magiftrate, by which he inhibited the acts of other magiltrates; or even, in cafe of the tribunes, the decrees of the fonate. $F_{\text {cto }}$ was the folemon word ufed
by the tribunes when they inhibited any decrec of the titerectin fenate or law propofed to the people. The general law of the?e interceffions was, tlat any maciitrate Intereq. might inhibit the acts of his equal or inferior ; but the tribunes had the folc prerogative of controling the acts of every other magiftrate, yet could uot be controlled themielves by any.

INTERCESSOR (from in:er and cedo " I go be. tween"), a perfon who prays, expuftulates, or intercedes, in behalf of another. In the Roman law, interceffor was the name of an oflicer, whom the govenors of provinces appointed principally to raifc taxes and other duties.

Intercessor, is alfo a term heretofore applied to fuch bithops as, during the vacancy of a fee, adminiftered the bimoprick, till a fuccelior to the deceated bithop bad been elected. The third council of Carthage calls thefe interventors.

INTERCOLUMNIATION, in Architecture, denotes the fpace between two columns, which is always to be proportioned to the height and bulk of the columns.

INTERCOSTAL, in Anatomy, an appellation given to fuch mufcles, nerves, arteries, and veins, as lie between the ribs.

IN'IERDICI', an ecclefiaftical cenfure, by which the church of Rome forbids the performance of divine fervice in a kingdom, province, town, \&c. This cenfure has been frequently executed in France, Italy, and Germany; and in the year 1I\%O, Pope Alexander III. put all England under an interdict, forbidding the clergy to perform any part of divine fervice, except baptifing of infants, taking confeffions, and giving abfolution to dying penitents. But this cenfure being liable to the ill confequences of promoting libertinifm and a neglect of religion, the fucceeding popes have very feldom made ufe of it.

There was alfo an interdict of perfons, who were deprived of the benefit of attending on divine fervice. Particular perfons were alfo anciently interdifted of fre and water, which fignified a banifhment for fome particular offence; by their cenfure no perfon was allowed to receive them, or allow them fire or water; and being thus wholly deprived of the two neceftary elements of life, they were doubtlefs under a kind of civil death.

INTERES'T, is the premium or money paid for the loan or ufe of other money,

Many gnod and leazned men have in former times very much perplexed themfelves and other people by raifing doubts about the legality of intereit in foro confcientic. It may not be amils here to inquire upors what grounds this matter does really fland.

The enemies to intereft in general make no diftinction between that and ufury, holding any increale of money to be indefentibly ufurious. And this they ground as well on the prolibition of it by the law of Mofes among the Jews, as alfo upon what is laid down by Aiftotle, That money is naturally barren; and to make it breed money is prepofterous, and a perverfion of the end of its inflitution, which was only to ferse the purperes of exchange, and not of increafc. Hence the fchocl-divines have branded the practice of taking intereft, as beling contrary to the divine law both natural and revealed; and the canon $13 w$ has profcribed

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turer ft. the taking any the leaft increafe for the loan of money as a mertal fin.

But, in anfwer to this, it may be obferved, that the Mofacical precept was ciearly a political, and not a moral, precept. It only prohibited the Jews from taking ufuy from their brethren the Jews; but in expref words permitted them to take it of a Aranger: which proves that the taking of moderate ufury, or a reward for the ufe, for fo the word fignifies, is not mafum in $f$ e, fince it was allowed where any but an Ifraelite was concerned. And as to Ariftote's reafon, deduced from the natural barrennefs of money, the frme may with equal force be alleged of houfes, which never breed houfes; and twenty other things, which nobody doubts it is lavfal to make profit of, by letting them to hire. And though money was originally ufed only for the purpofes of exchange, yet the laws of any Rate may be well juftified in permitting it to be turned to the purpofes of proft, if the convenience of fociety (the great end for which money was invented) tha:l require it. And that the allowance of moderate intereft tend greatly to the benefit of the public, efpecially in a trading country, will appear from that generally acknowledged principle, that commerce cannot fubfitt without mutual and extenfive credit. Unlefs money therefore can be borrowed, trade cannot be carried on: and if no premium were allowed for the hire of money, few perfons would care to lend it ; or at leaft the eafe of borrowing at a fhort warning (which is the life of commcree) would be entirely at an end. Thus, in the dark ages of monkifh fuperfition and civil tyranis, when intereft was laid under a total interdict, commerce was alfo at its loweft ebb, and fell entirely into the hands of the Jews and Lombards: but when men's minds began to be more enlarged, when true religion and real liberty revived, commerce grew again into credit ; and again introduced with itfelf its infeparable companion, the doctrine of loans upon intereft.

And, really, confidered abftractedly from this its ufe, fince all other conveniences of life may be either bought or hired, but money can only be hired, there feems no greater impropriety in taking a recompenfe or price for the hire of this, than of any other convenience. If one borrow 1001. to employ in a beneficial trade, it is but equitable that the lender fhould liave a proportion of the gains. To demand an exoroitant price is equally contrary to confcience, for the loan of a horfe, or the loan of a fum of money: but a reafonable equivalent for the temporary inconvenience which the owner may feel by the want of it, and for the hazard of his lofing it entirely, is not more immoral in one cale than it is in the other. And indeed the abfolute prohibition of lending upon any, even moderate intereft, introduces the very inconvenience which it feems meant to remedy. The neceffity of individuals will make borrowing unavoidable. Without fome profit by law, there will be but few lenders: and thofe principally bad men, who will break through the law, and take a profit ; and then will endeavour to indernnify therifelves from the danger of the penalty, by making that profit exorbitant. Thus, whille all degrees of profit were difcountenanced, we find more complaints of ufury, and more Hagrant inflances of enpreffion, thea in modern times when money may be
eafily had at a low intere?. A capital difinction muft therefore be made between a moderate and exorbitant profit; to the former of which we ufually give the name of interef, to the latter the truly odious appellation of ufiury: the former is neceflary in every civil flate; if it were but to exclude the latter, which ought never to be tolerated in any well regulated fociety.For, as the whole of this matter is well fummed up by Grotius, " if the compenfation allowed by law does not exceed the proportion of the hazard run, or the want felt, by the loan, its allowance is meither repugnant to the revealed nor to the natural $l_{d w}$ : but if it exceeds thofe bounds, it is then oppreflive ufury ; and though the municipal laws may give it impunity, they never can make it juft."

We fee, that the exorbitance or moderation of intereft, for the money lent, dewends upon two circumftances; the inconvenience of parting with it for the prefent, and the hazard of lofing it entirely. The inconvenience to individual lenders can never be eftimated by laws; the rate therefore of general intereft mult depend upon the ufual or general inconvenience. This refults entirely from the quantity of fpecie or current moncy in the kingdom: for, the more fpecie there is circulating in any nation, the greater fuperthity there :ill be, beyond what is neceffary to carry on the bufinefs of exchange and the common concerns of life. In every nation, or public community, there is a certain quantity of money thus neceffary; which a perfon well Rilled in political arithmetic might perhaps calculate as exactly as a private banker can the demand for running cafl in his own fhop: all above this neceflary quantity may be fpared, or lent, without much inconvenience to the refpective leaders; and the greater this national fuperfluity is, the more numerous will be the lenders, and the lower ourht the rate of the national intereft to be; but where there is not enough, or barely enough, circulating calh to anfwer the ordinary ufes of the public, intereft will be pronortionably high; for lenders will be but few, as few can fulmit to the inconvenience of lending.

So alfo the hazard of an entire lofs has its weight in the regulation of intereft : hence, the better the fecurity, the lower will the intereft be; the rate of intereit being generally in a compound ratio, formed out of the inconvenience and the hazard. And as, if there were no inconvenience, there fhould be no interelt but what is equivalent to the hazard; fo, if there were no hazard, there ought to be no interelt, fave only what arifes from the mere inconvenience of lending. Thus, if the quantity of fpecie in a nation le fuch, that the general inconvenience of lending for a year is computed to amount to three per cent. a man that has money by him will perhaps lend it upon good perfonal fecu: rity at five per cent. allowing two for the hazard run; he will lend it upon landed fecurity, or mortgage, at four per cent. the hazard being proportionably lefs; but he will lend it to the Itate, on the manienance of which all his property depends, at three per cent. tue hazard being none at all.

But fomectimes the hazard may be greater than the rate of intereft allowed by law will compenfate. And this gives rife to the practice, $\mathbf{J}$. Of bottomry, or reJpondentia. 2. Of policies of iufurance. See Bortomry, and Insuratice.

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tereft Upon the two principles of inconvenience and hazard, compared together, different nations have at dif. ferent times eftablithed different rates of intereft. The Romans at one time allowed centifrma, one per cent. monthly, or twelve per cent. per annum, to be taken for common loams: but Jutinian reduced it to trientes, or one-third of the as or centifime, that is four per cent. ; but allorved higher intereft to be taken of nerchams, becaufe there the hazard was greater. So too Grotius informs us, that in Holland the rate of intereft was then eight per cent. in common loans, but twelve to merchants. Our law eftablifhes one flandard for all alike, where the pledge or fecurity itfelf is not put in jeopardy; letf, under the general pretence of vague and indeterminate hazards, a door hlould be opened to fraud and ufury; leaving fpecific hazards to be provided againft by fpecific infurances, or by loans upon refpondentia or bottomry. But as to the rate of legal interell, it has varied and decreafed for 202 years paft, according as the quantity of feccie in the kingdom has increafed by aeceflions of trade, the introdution of paper-credit, and other circumitances. The flatute 37 Hen. VIII. c. 9. confined intereft to ten per cent. and fo did the flatute ${ }_{13}$ Eliz. c. 8. But as, through the encouragements given in her reign to commerce, the nation grew more wealthy; fo, under her fucceflor, the itatute 21 Jac . I. c. 17 . reduced it to eight per cent. ; as did the fatute 12 Car. II. c. 13 . to fis; and laftly, by the flatute 12 Ann. flat. 2. c. 16 . it was brought down to five per cent. yearly, which is now the extremity of legal intereft that can be taken But yet, if a contract which earries interelt be made in a fcreign country, our courts will direct the payment of intereft according to the law of that country in which the contract was made. Thus Irihh, American, Turkifh, and Indian intereft, have been allowed in our courts to the amount of even 12 per cent. For the moderation or exorbitance of intereft depends upon local circumftances; and the refufal to enforce fuch contracts would put a ftop to all foreign trade. And, by itat. 14 Geo. IIl. c. 79. all mortgages and other fecurities upon eftaies or other property in Ireland or the plantations, bearing intereft not exceeding fix per cent. fhall be legal; thourgb executed in the kingdom of Great Britain : unlefs the money lent flall be known at the time to exceed the value of the thing in pledge; in which cafe alfo, to prewent ufurious contrads at home under colour of fuch foreign fecurities, the borrower thall forfeit treble the fum fo borrowed.

For the method of compuring interelt, fee Arithmetic, fect. iv. p. 642, and Alcebrat, fect. xa. p. 65 ?

INTERJECTION, in Granmar, an indeclinable part of fpeech, fignifying fome paliion or emotion of the mind. See Grammar.

INTERIM, a name given to a formulary, or kind of confeffion of the articles of faith, obtruded upon the Proteflants after Luther's death by the emperor Clarles V. wben he had defeated their forces; fo called becaufe it was orly to tale place in the interim (mean time) till a general council hould bave decided all points in difpute between the Proteflants and Romanifts. It retair.ed moft of the doctrines and ceremonies of the Romanifs, excepting that of marriage, which
was allowed to the clergy, and communion to the laity Iaterion under both kinds. Moft of the Protellants rejçted it. cuior There were two other interims; one of Leipfic, the Interment. other of Franconia.

INTERLOCUTOR, in Scoss Laz, is the decifion or judgment of a court before the final decree is paffed and extracted.
INTER LOCUTORY decree, in Englifb Laiv. In a fuit in equity, if any matter of fact be ffrongly controverted, the fact is ufually directed to be tried at the bar of the court of king's bench, or at the allizes, upon a feigned iffue. If a queftion of mere law arifes in the courle of a caufe, it is the practice of the court of chancery to'refer it to the opinion of the judges of the court of king's bench, upon a cafe llated for that purpofe. In fuch cafes, interlocutory decrees or orders are made.

Interlocutozr yudgments are fuch as are given in the middle of a caufe, upon fome plea, proceeding on default, which is only intermediate, and does not finally deternine or complete the fuit. Bat the interlocutory judgments molt ufually fpoken of, are thofe incomplete judyments, whereby the right of the plaintiff is eftablilhed, but the quantum of damages fultained by him is not afcertained, which is the province of a jury. In fuch a cafe a writ of inquiry ifiues to the Therif, who fummons a jury, inquires of the damages, and returns to the court the inquifition fo taken, whereupon the plintifif's attomey taxes colls, and gigns final jodgment.

Intirlocutort Order, that whith decides not the caufe, but only fettles fome intervening matter relating to the caufe. As where an order is made in chancery, for the plaintiff to have an injunction, to quit poffeffion till the hearing of the caufe; this order, not being final, is called interlocutory.

INTERLOPERS, are properly thofe who, without due authority, hinder the irade of a company or corporation lawfully eflablifhed, by dealing in the fame way.

INTERLUDE, an ertertainment exhibited on the theatre between the acts of a play, to amule the fpectators while the actors take breath and hift their drefs, or to give time for changing the fenes and decorations.

In the ancient tragedy, the chorus fung the intetludes, to fhow the intervals between the atts.
Interludes, among us, ufually confilt of fongs, dances, feats of activity, conceris of mufie, \&\&c.
Arifotle and Horace give it for a rule, that the interludes fhould contint of fongs buitt on the principal paits of the drama: but fince the chorus has been laid down, dancers, buffoons, \&ic. ordinatily furnifk the interludes.
INTERMENT, the at of interring, i. e. burying or laving a deceafed perfon in the ground.

Arifotle afferted, that it was more jull to affit the dead than the living. Plato, in his Republic, does not forget, mongf other patt of juftice, that which concerns the dead. Cicero eftahlithes three kinds of juftice; the firl refpects the gods, the fecond the manes or dead, and the third men. Thefe principles feum to be drawn from nature; and they appear at leaft to be necellary for the fupport of Cociety, fince

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 at all tinies ciailized nations have taken care to bury their dead, and to pay their lafl refpens to them. See It'RIDI.

We find in hilfory fevera! traces of the refpect which the Indians, the Egyptians, and the Syrians critertained for the dead. The Syrians embalmed their bodies with myrrh, alocs, honey, falt, wax, bitumen, and refincus gums; they dried them alfo with the fmoke of the fir and the pine tree. The Egyptians preferved theirs with the refin of the cedar, with aromatic fpices, and with falt. Thefe people often kept fuch mummies, or at leaft their effigies, in their houfes; and at grand entertainments they were introduced, that by reciting the great actions of their anceftors they might be better excited to virtue. See Funeral Rites.

The Greeks, at firf, had probably not the fame veneration for the dead as the Egyptians. Empedocles, therefore, in the eighty-fourth Olympiad, reftored to life Ponthia, a woman of Agrigentum, who was about
$\div$ Digenes
Laertius de Vita et MTo ribus PbioSipborum, lib. viii. to be interred + . But this people, in proportion as they grew civilized, becoming more enlightened, perceived the neceflity of effablifing laws for the protection of the dead.

At Athens the law required that no perfon fhould be interred before the third day; and in the greater part of the cities of Greece a funeral did not take place till the fixth or feventh. When a man appeared to have breathed his laft, his body wras generally wathed by his nearelt relations, with warm water mixed with sine. They afterwards anointed it with oil; and covered it with a drefs commonly made of fine linen, according to the cuftom of the Egyptians. This drefs was white at Meffina, Athens, and in the greater part of the citics of Greece, where the dead body was crowned with fowers. At Sparta it was of a purplee colour, and the body was furrounded with olive leaves. The body was afterwards laid upon a couch in the entry of the honfe, where it remained till the time of the funeral. At the magnificent obfequies with which Alexander honoured Hepheftion, the body was not burned until the tenth day.

The Romans, in the infancy of their empire, paid as little attention to their dead as the Greeks had done. Acilius Aviola having fallen into a lethargic fit, was fuppofed to be dead; he was therefore carried to the funcral pile; the fire was lighted up; and though he cried out he was fill alive, he periflied for want of fpeedy affifance. The prætor Lamia met with the fame fate. Tubero, who had been pretor, was faved from the funeral pile. Afclepiades a phyfician, who lived in the time of Pompey the Great, about one hundred and twenty years before the Chriftian era, seturning from his country-houfe, obferved near the walls of Rome a grand convoy and a crowd of people, who were in mourning affifing at a funeral, and howing every exterior fign of the deepeft grief. Hawing afked what was the occafion of this concourfe, no one made any reply. He therefore approached the pretended dead body; and imagining that he perceived figns of life in it, he ordered the byftanders to take away the flambeaux, to extinguiih the fire, and to pull down the funeral pile. A kind of murmur on this arofe throughout the whole company. Some faid that they ought to believe the phyfician, while others turned both him and his profeffion into ridiculc. The rela-
tions, however, yielded at length to the remonftrances Ii.tern: of Afclepiades; they confented to defer the obfequies for a little; and the confequence was, the reftoration of the pretended dead peifon to life. It appears that thefe examples, and feveral others of the like nature, induced the Romans to delay funerals longer, and to enad laws to prevent precipitate interments.

At Rome, after allowing a fufficient time for mourning, the neareft relation generally clofed the eges of the deceafed; and the body was bathed with warm water, either to render it fitter for being anointed with oil, or to reanimate the principle of life, which might remain fufpended without manifefting itfelf. Proofs were afterwards made, to difcover whether the perfon was really dead, which were often repeated during the time that the body remained expofed; for there were perfons appointed to vifit the dead, and to prove their fituation. On the fecond day, after the body had been wafhed a fecend time, it was anointed with oil and balm. Loxury increafed to fuch a pitch in the choice of foreign perfumes for this purpofe, that under the confullhip of Licinius Craffus and Julius Cæfar, the fenate forbade any perfumes to be ufed except fuch as were the production of Italy. On the third day the body was clothed according to its dignity and condition. The robe called the protexta was put upon magiftrates, and a purple robe upon confuls; for conquerors, who had merited triumphal honours, this robe was of gold tiffue. For other Romans it was white, and black for the lower clafles of the people. Thefe dreffes were often prepared at a diftance, by the mothers and wives of perfons fill in life. On the fourth day the body was placed on a couch, and expofed in the veltibule of the houfe, with the vifage turned towards the entrance, and the feet near the door; in this fituation it remained till the end of the week. Near the couch were lighted wax-tapers, a fmall box in which perfumes were burnt, and a veffel full of water for purification, with which thofe who approached the body befprinkled themfelves An old man, belonging to thofe who furnifhed every thing neceffary for funerals, fat near the deceafed, with fome domeftics clothed in black. On the eighth day the funeral rites were performed; but to prevent the body from corrupting before that time, falt, wax, the refinous gum of the cedar, myrch, honey, balm, gypfum, lime, afphaltes or bitumen of Judea, and feveral other fubftances, were employed. The body was carried to the pile with the face uncovered, unlefs wounds or the nature of the difeafe had rendered it loathfome and difgufting. In fuch a cafe a mask was ufed, made of a kind of plafter; which has given rife to the expreffion of funcra laveata, ufed in fome of the ancient authors. This was the laft method of concealment which Nero made ufe of, after having caufed Germanicus to be poifoned : for the effect of the poifon had become very fenfible by livid fpots and the blacknefs of the body; but a fhower of rain happening to fall, it wafted the plafter entirely away, and thus the horrid crime of fratricide was dilcovered.

The Turks have, at all times, been accultemed to wafh the bodies of their dead before interment; and as their ablutions are complete, and no part of the body efcapes the attention of thofe who affut at fuch melancholy ceremonics, they can eafily perccive whether

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The difireace between the end of a weak life andinterniont. the commencement of death, is fo fimall, and the uncertainty of the figns of the latter is fo well cflablifhed both by ancient and modern authors who have tarned their attention to that important objcet, that wic can fcarcely fuppofe undertakers capable of dillinguihing an apparent from a real death. Animals which neep during winter fhow no figns of life; in this cafe, circulation is only fufpended: but were it annihilated, the vital fpirit does not fo eafily lofe its action as the other fluids of the body; and the principle of lifc, which long furvives the appearance of death, may re-animate a body in which the action of all the organs feems to be at an end. But how difficult is it to determine whether this principle may not be revived? It has been found impoffible to recal to life fome animals fuffocated by mephitic vapours, thougln they appeared lefs affected than others who have revived. Coldnefs, heavinefs of the body, a leaden livid colour, with a yellownefs in the vifage, are all very uncertain figns: Mr Zimmerman obferved them all upon the body of a criminal, who fainted through the dread of that punillment which he had merited. He was. ftraken, dragged about, and turned in the fame manner as dead bodies are, without the leaf figns of refifance; and yet at the end of 24 hours he was recalled to life by means of volatile alkali.

A director of the coach-office at Dijon, named Colinet, was fuppofed to be dead, and the news of this event was fpread through the whole city. One of his friends, who was defirous of feeing him at the moment when he was abcut to be buried, having looked at him for a confiderable time, thought he perceived fome remains of fenfibility in the mulcles of the face. He therefore made an attempt to bring him to life by Ppirituous liquors, in which he fucceeded; and this director enjoyed afterwards for a long time that life which he owed to his friend. This remarkable circumftance was much like thofe of Empedocles and Afclepiades. Thefe inflances would perhaps be more frequent, were men of ikill and abilities called in cafes of fudden death, in which people of ordinary knowledge are often deceived by falle appearances.

A man may fall into a fyncope, and may remai: in that condition three or even eight days. People in this fituation have been known to come to life when depofited among the dead. A body belonging to the hofpital at Caffel appeared to have breathed his laft: he was carried into thie hall where the dead were expofed, and was wrapped up in a piece of canvas. Somc time after, recovering from his lethargy, he recollened the place in which he had been depofited, and crawling towards the door knocked againf it with his foot. This noife was luckily heard by the centinel, who foon perceiving the motion of the canvas called for affillance. The youth was immediately conveyed to a warm bed, and foon perfectly recovered. Had his body been confined by clofe bandages or ligatures, he would not have becn able, in all probab:lity, to make himfelf be heard: his unavailing efforts would have inade him again fall into a fyncope, and he would have bcen thus buried alive.

We mult not be afonifted that the fervants of an hofpital hrould take a fyncope for a real death, fince cren the mof enlightened people have fallen iuto errers

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Intermens. of the fame kind. Dr John Schmid relates, that a young girl, feren years of age, afier being aflicted for fome weeh's with a volent cough, was al of a fudden freed from this troublefome malady, and appeared to be in peifect health. But fome lays after, while paying with her companions, this child feil down in an in. ftant as if ftruck by lightning. A death-like palenefs was difuice over her face and arms; the had no apparent fulle, her temples were funk, and he fhowed no figns of fenfation when thaken or pinched. ishyfician, who was called, and who believed her to be dead, in compliance with the repented and prefling rcquelt of her parents, attempted, though without any hopes, to recal her to life; and at length, after feveral vain efforts, he made the foles of her feet be fmartly rubbed with a bruik dipped in ftrong pickle. At the end of three quarters of an hour the was oblerred to figh: fhe was then made to fwallow fume firituous liquor ; and the was foon after reftored to life, much to the joy of her difconfolate parents.- A certain man having undertaken a journey, in order to fee his brother, on his arrival at his houle found him dead. This news affected him fo much, that it brought on a moft dreadful fyncope, and he himfelf was fuppofed to be in the like fituation. After the ufual means had been employed to recal him to life, it was agreed that his bodv hould be dipected, to dilcover the caule of fo fudden a death; but the fuppofed dead jer on overhearing this propofal, opened his eyes, ftarted up, and immediately betock himfelf to his heels.-Cardinal Efpinola, prime minifer to Philip II. was not fo forrunate; for we read in the Memoirs of Amclot de la Houffai, that ke put his hand to the knife with which he was opened in order to be embalmed. In frort, a!mof cwery one knows that Vefalius, the father of anatomy, having bcen fent for to open a woman fubject to hyfterics, who was fuppofed to be dead, he perceived, on making the firf incition, by her motion and cries, that fte was ftill alive; that this circumfance rendered him fo odious, that he was obliged to thy; and that he was fo mucla affected by it, that he died foon after.-On this occafion, we cannot forbear to add an event more recent, but no lefs melancholy. The abbé Prevor, fo well known by his writings and the fingularities of his life, was feized with a fit of the apoplexy, in the foreft of Chantilly, on the 2.3 d of Ofober 1763 . His body was carried to the nearett villace, and the officers of juftice were procerding to open it, when a cry which he fent forth affrightened all the afiftants, and convinced the furgeon that the abbéwas not dead; but it was too late to fave him, as he had already received the mortal wound.

Even in old age, when life feems to have been gradually drawing to a clofe, the appearances of death are often fallacious. A lady in Cornwall, more than 80 years of age, who had been a confiderable time declining, took to her bed, and in a few days feemingly expired in the morning. As the lad often defired not to be buried till the had been two days dead, her requeft was to have been regannly complied with by her relations. All that faw her looked upon her as dead, and the report was current through the whole place; nay, a gentleman of the town actually wrote to his friend in the inand of Scilly that the was doceafed. But one -! :lofe who were paying the laft kind office of huma-
nity io hor remains, perceived fome warmatly ahout the Interm middlc of the back; and acquainting her friends with it, they applicd a mirrer to her mouth; but, a ter repeated trials, could not obferve it in the leaft 1ain. cd; hew uncier jaw was likewife follen, as the common phrafe is; and, im mort, the had every appearance of a dead perfon. All this time lise had not been tripped or drefled ; but the windows were opened, as is ufual in the chambers of the deceafed. In the evening the heat feemed to increafe, and at length the was perceived to breathe.

In fhort, not only the ordinary figns are very uncertain, but we may fay the fame of the fliffnefs of the limbs, which may be conrulfive; of the dilation of the pupil of the eye, which may proceed from the fame caufe; of putrefaction, which may equally attack fome parts of a living body; and of feveral others. Haller, convinced of the uncertainty of all thefe figns, propofes a new one, which he confiders as infallible. "If the perfon (fags he) be ftill in life, the mothth will immediately thut of it Celf, beeaule the contraction of the mufcles of the jaw will awaken their irritability." 'Ihe jaw, however, may be deprived of its irritability though a mais may not be dead. Life is preferved a long time in the paffage of the inteftines. The fign pointed out by Dr Fothergill appears to deferve more atiention: "If the air blown into the mouth (fays this phyfician) paffes freely through all the alimentary channel, it affords a ftrong prefungtion that the irri. tability of the internal fphincters is deftroved, and confequently that life is at an end." Thefe figns, which deferve to be confirmed by new experiments, are doubt. le§s not known to undertakers.

The difficulty of dilkinguilhing a perfon apparently dead from one who is really fo, has, in all countries where bodies have been interred too precipitately: rendered it neceffary for the law to affit humanity. Of feveral regulations made on this fubject, we thall quote only a few of the mof recent; fuch as thole of Arras in 1772; of Mantua in 1774; of the grand duke of Tufeany in 1775; of the fenechauflée of Sivrai, in Poitou, in 1777; and of the parliannent of Metz in the Came year. To give an idea of the reff, it will be fulficient to relate only that of Tufeany. By this edict, the grand duke forbids the precipitate intcrment of perfons who die fuddenly. He orders the magifrates of health to be irformed, that phyfieians and furgeons may examine the body; that they may ufe every endeavour to recal it to life, if poffible, or to difrover the caufe of its death; and that they fhall make a report of their procedure to a certain tribunal. On this eccafion, the magiftrate of heal:h orders the dead not to be covered until the moment they are about to be buried, except fo far as decency requires; obferving always that the body be not clofely confined, and that nothing may comprefs the jugular veins and the carotid arteries. He forbids people to be interred according to the ancient method; and requires that the arms and the hands hould be left extended, and that they frould not be fulded or placed crofs-wife upon the breaft. He forbids, above all, to prefs the jairs one againft the other ; or to fill the mouth and nofrils with cotton, or other fulfing. Laflly, he recommends not to cover the vifage with any hind of cloth until the body is depofited in its colim.
terment We thall conclude this article by fubjoining, from Dr Hawes's Addrefs to the Public on this fubject, a few of the cares in, which this fallacious appearance of death is mont likely to happen, together with the refpective modes of treatment which he recoummends.

In apoplectic and fainting fits, and in thofe arifing from any violent agitation of mind, and alfo when opium or fpirituous liquors have been taken in too great a quantity, there is reafon to believe that the uppearance of death bas been frequemily miftaken for the reality. In thefe cafes, the means recommended by the Hunnanc Society for the Recovery of Drowned Perfons hould be perfevered in for feveral hours? and bleeding, which in timilar circumftances has fometimes proved pernicious, ihould be uled with great caution. (See the arricie Drowning). In the two later inHances it will be highly expedient, with a view of counteracting the foporific effects of opium and firitis, to convey into the flomach, by a proper tube, a folution of tartar emetic, and by various other means to excite vomiting.

From the number of children carried off by convulfions, and the certainty arifing from undoubted facts, that fome who have in appearance died from that caufc have been recovered; there is the greateft reafoan for concluding, that many, in confequence of this difeale, have been prematurely numbered among the dead; and that the fond parent, by neglecting the means of recalling life, has often been the guiltlefs executioner of her orn offspring. To prevent the commi:fion of fuch dreadful mittakes, no child, whofe life has been apparently extinguithed by convulfions, thould be configned to the grave till the means of recovery above recominended in apoplexies, \&c. have been tried; and, if polfible, uader the direction of fome fkilful practitioner of medicine, who may vary them as circumflances thall require.

When fevers arile in weak habits, or when the cure of them has been principally attempted by means of deplation, the confequent debility is often very great, and the patient fometimes finks into a flate which bears fo clofe an affinity to that of death, that there is reafon to fulpect it has too ofien deceived rhe byllanders, and induced them to fend for the undertaker when they fhould have had recourfe to the fuccours of medicine. In fuch cales, volatiles, eau de luce for example, flould be applied to the nofe, rubbed on the temples, and fprinkled often about the bed; hot Hantels, moittened with a Itrong foluiion of camphorated fpirit, may likewife be applied over the breaft, and renewed every quarter of an hour; and as foon as the patient is able to fuallow, a teafpoonful of the itrongeft cordial hould be given every five minutes.

The fame methods may alfo be ufed with propriety in the fuallpox when the puftules fink, and death apparently enfues; and likewife in any other acute difeafes, when the vital functions are fulpended from a fomilar cafe.
intermittent, or Intermutting, Fejer; fuch fevers as go off and foon return again, in oppofition to thofe which are coritinual. See Medrcine: Index.

INTERPOLATION, anong critics, denotes a fpurious pallage inferted into the writings of fome ancient author.

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Interfolation, in the modern algebra, is ufed for Interpolafinding an intermediate term of a feries, its place in the tion feries being given. This method was firl invented by Il Mr Brigg', and applied by him to the calculation of interrogalogarithms, \&c. See Alcerra.

INTER POSITION, the fituation of a body between two cthers, fo as to hide them, or prevent their action.

The eclipfe of the fu:a is occafioned by an interpofition of the moon between the fun and us; and that of the moon by the interpofition of the earth between the fun and moon. Sce Eclipse.
INTERPRETER, a perfon who explains the thoughts, words, or writings, of fome other, which before were unintelligible- The word interpers, according to Ifilore, is compofed of the prepoition inter, and partes, as fignifying a perfon in the middle betwist two parties, to make them mutually underfland each others thoughts: others derive it fro:n inter, and prees, i. e. fidjejufor ; q. d. a perfon who ferves as fecurity between two others who do not underlland one ano:her.

There have been great debates about inserpreting Scripture. The Romanills contend, that it belongs ab. folutely to the church : adding, that where ite is filent, realon may be confulted; but where the fpeaks, reaton is to be difregarded. The Proteftants generally allow realon the fovereign judge, or interpreter; thougin fome among them have a flrong regard to fynols, and others to the authority of the primitive fathers. Lallly, others have recourfe to the Spirit with:n every perfon to interpret for them; which is what Bochart

INTERREGNUM, the time during which the throne is vacant in elective hingdoms; for in fuch as are hereditary, like ours, there is no fuch thing as an interregaum.

INCERREX, the magiftrate who governs during an interregnum.
This magiltrate was eftablithed in old Rome, and was almolt as ancient as the city itfelf: after the death of Romulus there was an interregnum of a year, during thich the fenators were each interrex in their turn, five days a-piece.
After the ellablithment of confuls a:id a commonwealth, though there were no kings, yet the name and function of interrex was Atill preferved : for, when the magiltrates were abfent, or there was any irregularity in their election, o: they had adicated, fo that the comitia could not be held; provided they were u:lwilling to create a diCtator, they made an interrex, whofe office and authority was to laft five days; after which they made another. To the interrex was delegated all the regal and confular authority, and he performed all their functions. He alfiombled the fenate, held comitia or courts, and took care that the election of magiffrates was according to rules. Indeed at firt it was not the cufton of the interrex to hold comitia, at leat we have no inflance of it in the Roman hiftory: The patricians alone had the right of electing an interrex ; but this office fell with the republic, when the emperors made themfelves mallers of every thing.
interrogation, Erotesis, a figure of rhetoric, in which the paffion of the fpeaker introduces a
$\mathrm{P}_{\mathrm{p}}$ thing

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materon-a. thing by way of quefion, to malie its truth more conto In Cruat.
ficuou:
The interrogation is a kind of apofrophe which the
fpeaker makes to himfelf; aud it mund be owned, that this figure is fiured to exprefs molt paffions and emotons of the mind; it ferves alfo to prefs and bear do :n an adverfary, and gencrally adds an uncommon briknefs, action, iorce, and varicty, to dificourfe.

Interrogation, in Grarmar, is a point which ferves to diftinguith fuch parts of a difoourfe, where the author fpeaks as if he werc alling queftions. Its form is this (?).

INTERROGATORIES, in Laze, are particular quitions demanded of witneffes brought in to be examined in a caufe, efpecially in the court of chancery. And theie interrogatories mult be exhibited by the parties in fuit on each fide; which are either direct for the party that produces them, or counter, on behalf of the advere party; and generaily both plaixtif and defenddant may exhibit direct, and counter or cro's interrogatories. They are to be pertinent, and only to the points neceflary; and either drawn or perufed by cousfel, and to be figned by them.

INTERSCENDENT, in Algelra, is applied to quantities, when the exponen:s of their porers are radical quantities. Thus, $x \sqrt{1}^{2}, x \sqrt{2}$, \& $c$. are interfcendent quantities.

INTERSECTION, in Mathematies, the cutting of one line, or plane, br another; or the point or line wherein two lines, or two planes, cui each other.

The mutual interfection of two planes is a right line. The centre of a ciscle is ia the interfection of two diameters. The central point of a regular or irregular figure of four fides, is the point of interfection of the two diagonals.

The equinowes happen when the fun is in the interfeetions of the equator and ecliptic.

INTERSPINAL.E'S. See Axatomr, Table of the Miufles.

IN FERVAL, the diffance or fpace between two extremes, either in time or plase. The word comes from the Latin interaallum, which, accordng to Ifidare, figninies the fpace inter fof $f_{\text {mo }}$ so murum, " between the diteh and the wall :" othes nute, that the fakes or pilec, driven into the ground ia the ancient Roman balisarks, were called eolla; and the interitices of vacancy between them, iateroalla.

Interval, in Muff. The dilance between any given found and another, frictly fpeaking, is neither meafured by any commora Atandard of extenfio: nor duration; but either by immediate fen?ation, or by computing the difierence between the numbers of vibrations produced by two or more fororous bodies, in the at of founding, during the fame given time. As the vibrations are flower and fewer during the fame inftant, for example, the found is proportionally lower cr graver; on the contrary, as during the fame period the vibrations increafe in number and relocity, the foun's are proportionably higher or more acute. An interval in mufic, therctore, is properly the diference between the number of vibrations produced by one fonorous body of a certain mannitude and texture, and of thofe produced by another of a diffesent magnitude and texture in the fa:ne time.

Intervals are divided into confonant and dizonant.

A conforant interval is that whofe extretse, or wi. ofe coalefce in the eat, and produce ais agreeable fenfation callied ty Lord Fames a tcrtium cuid. A ditionant interva!, on the contrary, is that whofe extremes, limul. taneoufly heard, far from coalecting in the ear, and producing one agreeable fenfation, are cach of them plainly diftinguified from the other, produce a sprating effect upon the fenfe, and repel each other with an itreconcilcable hoftility. In proportion as the vibrations of different fonoivus bodies, or of the fane funorous body in different modes, more o: lefs frequently coincide during the fame given time, the chords are more or lefs confonant. When thele vibrations never coincide at all in the fame given time, the dicord is confummate, and corfequently the interval abfolutely diffonant. But, for a full account of thefe, fee Mu. sic.
inTESTATE, in Law, a perfon that dies rithout making a will.

INTESTINA, in the Linncan Syfern, one of the orders of worms. See Helminthology Inde:.

INTESTINES, Istestina, in Anatory, the guts or bowels; thofe licllow, membranuus, cylindrical parts, extended from the right orifice of the flomach to the anus; by which the chyle is conveyed to the lafteals, and the excrements are voided. See AxsTO:IY, $\mathrm{N}^{\circ} 93$.

INTONATION, in Miffic, the action of founding the notes in the fcale with the roice, or any other given order of mufical tones. Intonation may be either true or falfe, either too high or too low, either too fharp or too flat ; and then this word intonation, attended with an epithet, mult be underfood concerning the manner of performing the notes.

In executing an air, to form the founds, and preferve the intervals as they are narked with jufnefs and accuracy, is no inconfiderable difficulty, and fcarcely practicable, but by the affifance of one common idea, to which, as to their ultimate teft, thefe founds and intervals muft be referred: thefe common ideas are thofe of the key, and the mode in which the performer is engaged ; and from the word tore, which is fometimes uled in a fenfe almoft identical with that of the key, the word inionation may perhaps be derired. It may alfo be deduced from the word diatonic, as in that fcale it is meff fequently converfant ; a fcale which appears moft convenient and moft natural to the voice. We feel more difficulty in our intonation of fuch intervals as are greater or lefier than thofe of the diatonic order; becaule, in the firt cafe, the glotis and vocal organs are modified by gradations too large ; or too complex. in the feconl.

INTRENCHMENT, in the military art, any work that fortifies a poft againf an enemy who attacks. It is gencrally taken for a ditch or trench with a parapet. Intrenchments are fometimes nade of fafcincs with earth thrown over them, of gabions, hogro heads, or bags filled with earth, to cover the men from the eneny's fire.

INTRIGUE, an affemblage of events or circumflances, occurring in an affair, and rerplexing the perfons concerned in it. In this fenfe, it is ufed to fignify the rodus or plot of a play or romance; or that point whercin the principal characters are moft embarrafied through

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Intrigue through the artifice and cppolition of certain perfons, or the unfortunate falling out of ce:tain accidents and circumplances.

In tragedy, comedy, or an epic poem, there are always two defigns. The firt and principal is that of the hero of the fiece : the fecond contains the defigns of all thofe who oppole him. Thele oppofite caufes produce oppofite effects, to wit, the efforts of the hero for the execution of his defign, and the efforts of thole who thwart it. As thole caules and defigns are the begiming of the action, fo thefe efforts are the middle, and there form a knot or dificulty which we call the intrigue, that makes the greatelt part of the poem. It lafts as long as the nind of the reader or hearer is fufpended about the event of thole oppofite efforts : the folution or catallrophe commences when the knot begins to unravel, and the dilficulties and doubts begin to clear up.

The intrigue of the Iliad is trofold. The firft com. prehends three days fighting in Achilles's ablence, and confits on the one fide in the refiftance of Agameranon and the Greeks, and on the other in the inexorable temper of Achilles. 'The death of Patroclus unravels this intrigue, and makes the beginning of a fecond. Achilles refolves to be revenged, but Hector oppoles his defign ; and this forms the fecond intrigue, which is the laft day's battle.

In the Eneid there are alfotiwo intrigues. The firft is taken up in the voyage and landing of Eneas in Italy; the fecond is his eftablifhment there: the oppolition he met with from Juno in both thefe undertakings forms the intrigue.

As to the choice of the intrigue, and the manner of unravelling it, it is certain they ought both to fpring naturally from the ground and fubject of the poen. Boffu gives us three manners of forming the intrigue of a poem : the firlt is that already mentioned; the fecond is taken from the fable and defign of the poet; in the third the intrigue is fo laid, as that the folution follows from it of courfe.

INTRINSIC, a term applied to the real and genuine ralues and properties, \&c. of any thing, in oppofition to their extrin/ic or apparent values.

INTRODUCTION, in general, fignifies any thing which tends to make another in fome mealure known before we have leifure to examine it tboroughly; and hence it is ufed ois a creat variety of occafions. "Thus we fpeak of the introduction of one perfon to another; the introduction to a book, \&c.-It is allo u!ed to fignify the actual motion of any body out of one place into another, when that motion has been occafioned by fome other body.

Introduction, in Oratory. See Oratory, No 26.
INTUITION, among logicians, the act whereby the mind perceives the agreement or diagreement of two ideas, immediately by themelves, without the intervention of any other; in which cafe the rnind perceives the truth as the eye does the lizht, only by being directed towards it. See Locric, No $25,27$.

INTUITIVE EVIDENCE, is that which vefults from latuition. Dr Canpbell diftinguithes different forts of intuitive evidence; one refulting purely from intellection, or that faculy which others have called intuition; another kind ariting from confcioufners; and a shisd fort from that new-named faculty Cominors Sense,
which this ingenious writer, as well as feveral others, fuvalid contends to be a dillinet original fource of knowledge; whith others refer its luppoled office to the intutive Inveniory power of the underfanding.

INV A LiI), a perfon wounded, maimed, or difabled for ation by age.

At Chetfea and Grcenwich are magnificent Hospr Tals, or rather colleges, built for the reception and accommodation of inza!ids, or foldiers and feamen worn our in the fervice.

We have alfo twenty independent companies of inralids, difperfed in the feveral forts and garrifors.

At Paris is a college of the fame kind, called $l$ : Invalides, which is accounted one of the finell build ings in that city.

INVECTED, in Heraldiry, denotes a thing tluted or furrowed. See Heraldry.

INVECTIVE, in R/betoric, differs from reproof, as the latter proceeds from a friend, and is intended for the good of the perfon reproved; whereas the in. vective is the work of an enemy, and entirely defigned to vex and give uneafinefs to the perfon againit whom it is directed.

INVENTION, denotes the aft of finding any thinis new, or even the thing thus found. Thus we fay, the invention of gurpozder, of printing, \&c. The alcove is a modern invention owing to the Moors.

The Doric, lonic, and Corinthian orders, are of a Greek invention; the Tufcan and Compofite of Latin invention. Janfon ab Almeloveen has written an Onomallicon of inventions; wherein are thown, in an alphabetical order, the names of the inveutors, and the time, place, \&ic. where they are made. Pancirollus has a treatife of old inventions that are loft, and new ones that have been made; Polydore Virgil has allo publifhed eight books of the iuventors of things, $D_{e}$ Inventoribus Ker:zm.

Inventios is alfo ufed for the finding of a thing hidden. The Romith church celebrates a feaft on the $4^{\text {th }}$ of May, under the title of Invention of the Holy Crofs.

Invention is alfo ufed for fubtility of mind, or fomewhat peculiar to a man's genius, which leads him to a difcovery of things new; in which fenfe we fay, a man of invention.

Invention, in Painting, is the choice which the painter makes of the objects that are to enter the conspolition of his piece. Sce Painting.

Invention, in Poerry, is applied to whaterer the poet adds to the hiftory of the fubjcit he has chufen; as well as to the ners turn he gives it. Sie Poetry.

Isvestros, in Rheforic, fignifies the finding aut and choofing of certain arguments which the orator is to ufe for the proving or illullrating his point, moving the paffions or conciliating the minds of his hearers. Invention, according to Cicero, is the principal part of oratory: he wrote four books De Inventione, where. of we have but two remaining. See Oritory.

INVENTGRY, in Law, a catalogue or fchedule orderly made, of all the deceifed perfon's gnods and chattels at the time of his death, with their value appraifed by indifierent perfons, winch every executor or adminiftrator is obliged to exhibit to the ordinary at tuch time as he flall appoint.

1hy 21 Men. VllI. c. v. executors and adminittrators

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verary are to deliver in upon oath to the ordinary, indented inventories, one part of which is to remain with the ordinary, and the other part with the executor or ad- miniftrator ; this is required for the benefit of the creditors and legatees, that the evecuror or adminifirator may not conceal any part of the perional eflate from them. The fatute ordains, that the inventory fhall be exhibited within three months after the perfon's deceafe; yet it may be done afterwards; for the ordinary may dilpenfe with the time, and even with its being ever exhibited, as in cafes where the creditors are paid, and the wilt is executed.

INVERARY, the country tom of Argylehire, in Scotland, pleafanily fituated on a finall bay formed by the junction of the river Ary with Loch-fine, where the latter is a mile in width and 60 fathems in depth. Here in a caftie, the principal feat of the dukes of Argyle, chief of the Campbells. It is a modern building of a quadrangular form, with a round tower at each corner; and in the middle rifes a fquare one glazed on evety fide to give light to the flaircafe and galleries, which has from without rather a heavy appearance. This cafte is built of a coarfe hapis ollaris brought from the other fide of Loch-fine; and is of the fame kind with that found in Norway, of which the kiag of Dermark's palace is built. The fomnder of the callte, the late Duke Archibald, alfo formed the defign of an entire new town, upon a commodious elegant plan, t.ecoming the dignity of the capital of Argylellire, a fountry mof admirably fituated for filheries and navigation. The town hath been rebuilt agreeable to the ariginal defign; and the inbabitants are well lodged in houfes of flone. lime, and flate. They are fully employed in arts and manufactures, and plentifully fupplied in the produce of fea and land. The planting around Inverary is extenfive beyond conception, and admirably variegated; evety crevice, g!en, and mountainf, difplaying tafte and good fenfe.

The ralue of the immenfe wood at this place, for the various purpofes of bark, charcoal, forges, paling. furniture, houfe and fhip building, is thus eflimated by Mr Krox: "Some of the beech are from 9 to 12 feet in circumference, and the pines from 6 to 9 ; but thefe being comparatively few, we fall flate the medium girth of $2,000,000$ trees planted within thefe laft hundred years, at 3 feet, and the medium value at 4 s. which produces 400,0001 .; and this, for the moft part, upon grounds unfit for the plough, being chiefly compofed of hills and rock." One of thele hills rifes immediately from the houfe a great height, in the form of a pyramid, and is clothed to the fummit with a thick wood of vigorous ornamental trees. On this fummit or point Archibald duke of Argyle built a Gothic tower, or obfervatory, where he fometimes amuled himfelf. The afcent by the road feems to he half a mile, and the perperdicular height abou: 800 feet.

INVERBERVIE, or Brrvie, a town of Scotland, in Kincardinelhise or the Mearns, and a royal booough, 13 miles north-eaft from Montrofe. It lies between two fmall hills, which terminate in high cliffis towads the fea; it is but a fmall place, the inhabitants of which are chiefly employed in making thread.

INVERKEITHING, a town of Scotland, in the county of Fife, fituated on the northern itiore of the
frith of Forth, in W. Long. 3. 15. N. Lat. 56. 5. Inerlocl It was much fayoured by William, who granted its iniernes firft charter. He extended its linerties confideraliy, and in the time of David I. it beiame a royal refidence. The Moubrays had lare poffelfins here, which were forfeited in the reign of Robert II. The Francifcans had a convent in this town; and, acco d. ing to Sir Robert Sibbald. the Dominicans had ano. ther. I his town has a confiderable trade in coal and other articles.

INVERLOCHY, an ancient cante in the neighbourhood of Fort-iWilham in Invernefahive. It is adorned with large round towers: and, by the mode of building, feems to have been the work of the Englifh in the time of Edward I. who laid large lines o: the Scotch barons for the purpole of erecting new caltles. 'The largef of thefe towers is called Cumin's. But long prior to thete ruins, Inverlachy, according to Boece, had been a place of great note, a molt opulent city, remarkable for the valt refort of French and Spaniards, probably on account of traie. It was alfo a feat of the kings of Scotland, for here Achaius in the year 790 figned (as is reported) : he league offenfive and defenfive between himfelf and Charlemagne. In after-times it was utterly deftroyed by the Danes, and never again rettored.

In the neighbourhood of this place were fought two fierce battles, one betteen Donald Balloch Lrether to Alexander lord of the illes, who with a great power invaded Lochaber in the year $1+27$ : he was nuet by the earis of Mar and Caithnefs; the laft was flain, and their forces totally defeated. Balluch resurned to the ifles with valt booty. Here allo the Campbelis under the marquis of Argy?e, were in February 1675 , defeated by Montrofe. Fifteen l.undred fell in the action and in the purfuit, with the lois only of three to the royalifts.

INTERNESS, capital of a county of the fame name in Scotland, is a parliament-town, ñely feated on the river Nefs, over which there is a ftonc bridge of feven asches, in W. Long. 4. N. Lat. 57.36. It is large, well built, and very populous. being the moft northerly town of any note in Britain. As there are alrays regular troops in its neighbourhood, there is a great air of politenefs, a plentiful marhet, and more money and bulinefs ftirring than could have been expe? ed in fuch a remote part of the ifland. The country in the reighbourhood is remarkably well cultivatrd; and is produce clearly liows that the foil and climate are not defpicable. The falmon-fifhery in the Nefs is very confiderab!e, and is let to London fifhmongers. Some branches both of the woollen, liren, ar.d hemp manufacture, are alfo carried on here; and, in confeq̧uence of the excellent military roads, there is a great proportion of inland trade. But befides all this, Invernefs is a port with 20 creeks dependent upon it, part on the Murray frith to the eaft, and part on the north of the town, reaching even the fouth border of the coanty of Caithnefs. Invernefs has feveral good fchools; and an acadcmy was erected fome years ago on an extenfive and liberal plan. The inhabitants fpeak the Erfe and Englifh language promifcuoufly. On an eminence near the town are the remains of a caille, where, according to fome hiftorians, the fameus Macbeth murdered Duncan his royal guef.

Infirness-Shire,

IErref.- Inrexness-Shire, a county of Scotland, bounded on the north by Rofsfhire; on the ealt by the fluires of Narme, Murray, and Aberdeen; on the fouth, by thofe of Perth and Argyle; and on the weit, by the Atlantic ocean. Its extent from worth to fouth is above 50 miles; from eaft to weit about 80 . -The northern part of this county is very mountainous and barren. In the diftrift of Glenclg are leen the ruins of feveral ancient circular buildings, fimilar to thofe in the We!tern Illes, Sutherland, and Rofs-hires ; concerning the ufes of whiclı antiquarians are not agreed. In their outward appearance, they are round and tapering like glafs-houfes. In the heart of the wall, which is perpendicular within, there are horizontal galleries going quite round and connected by itsirs. Thefe afcend toward the top, which is open. They are all built of ftone, without lime or mortar of any hind. They have no opening outward, except the door: and the top; but there are feveral in the infide, is windows to the galleries. From Bernera barracks, in this diftrict, proceeds the military road to Inverne?s.
This county is nearly divided by rrater, fo that by means of the Caledonian canal uniting Loch Nefs, Loclı Oich, Loch Lochy, and Lochiel or Loch Eil, a communication will be opened between the eaftern and weftern feas. This great undertaking is now ( $1 \mathrm{SO}_{7}$ ) going forward. In this tract, Fort George, Fort Auguftus, and Fort William, form what is called the Cliain of Forts acrofs the illand. By means of Fort George on the eaft, all entrance up the frith towards Invernefs is prevented; Fort Auguffus curbs the inhabitants midway; and Fort Willian is a check to any attempts in the weft. Detachments are made from all thefe garritons to Invernels. Bernera barracks oppofite to the ille of Skye, and Cafle Duart in the inle of Mull.

The river Nefs, upon which the capital of the thire is fituated, is the outlet of the great lake called Loch Nefs. This beautiful lake is 22 miles in length, and for the moft part one in breadth. It is ikieened on the northwett by the lofy mountains of Urquhart and Mealfour:onv, and bordered with coppices of birch and oak. The adjacent hills are adorned with many extenfive foretts of pine; which afiord thelter to the cattle, and are the retreat. of flags and deer. There is much cultivation and improvements on the banks of Loch Nefs; and the pafture-grounds in the neighbouring valleys are excellent.- From the fouth, the river Fyers defcends towards this lake. Over this river there is built a Aupendous Sridge, on two oppofite rocks; the top of the arch is above 100 feet from the level of the water. A little belosv the bridge is the celebrated Fall of Fyers, where a great body of water darts turough a narrow: gap between two rocks, then falls over a raat precipice into the botom of the chafin, where the foam rifes and fills the air like a great cioud of frolite.

Loch Oich is a narrow lake, firetching about four miles fro:n eall to wett. It is adorned with fome fmall wooded iflands, and is furrounded with ancient trees. Near this is the family feat of Glengary, furrounded by natural roods of full grown fir, which extend nine es ien miles along the banks of the river Cary. The
waters of Loch Oich flow through Loch Ncls, into the Invernefseallern fea.-Loch I Lochy tranfinits its waters in an op-. $\underbrace{\text { faire. }}$ pofite direction, this being the higheit part of the vart flat trant that here ftretches from fa to fea. This extenfive lake is above ten miles in length, and from one to two in breadth Fiom the well, the waters of Loch Arkek defcend into this lake. Out of it runs the river Lochy, which about a mile, below its iflue from the lake receives the Spean, a confiderable tiver, owr which there is a magnificent bridge, built by General Wade, about two miles above the place where it falls into the Lochy. Thefe united freams traverling the plains of Lochaber, after a courfe of five or fix miles, fall into Loch Eil.

A few miles to the fouth-eaf of Loch Lochy is Glenroy or King's Vale. The north-eaft end of this valley opens on Loch Spey. A fmall river paftes along the bottom of the vale, accompanied by a modern road. On the declivity of the mountains, about a mile from the river, on either hand, are feen feveral parallel roads of great antiquity. On the north-welt fide, five of thefe roads run parallel and clofe by each other. On the oppofite fide are three other roads exactly fimilar. Thefe roads are 30 feet broad, all perfegty horizontal, and extend eight or nine miles in length. Their deflination or ufe has baflled the conjectures of antiquarics.-Not far from Fort Aluguflas foars the pointed fummit of Bennevis, which is efteemed the higheft mountain in Britain, rifing more than 4300 feet above the level of the fea. - In the diltricts of Moydart, Arafack, Morer, and Knoydiart, there are numerous bays and creeks, along the coall, many of which might be excellent filling flations.

The fouthern part of this county is very mountainous, and is fuppofed to be the mott elevatcd ground in Scotland. From its numerous lakes many freams defcend toward both feas. In the extentive dillrict called Badenoch lies Loch Spey, the fource of the great river Saey, which proceeding ealtward with an increafing Itream, enters the thire of Murray at Rothiemurchus, after having expanded into a fine lake. Not far from this is feen the lofty to: , Cairngorm; a mountain celebrated for its bedutiful rock-cryitals of various tints. Thefe are much efteemed by lapidaries; and fome of them, having the luttre of fine gems, bring a very hieh price. Limetone, iron-ore, and fome traces of different minerals, are found in the country; but no mines lave yet been worked with much fucceli. Its rivers and lakes afford abuntlance of falmon and trout. The extenfive plains which furround the lakes are in general fertile; and the high grounds feed many fheep and black cattle, the rearing and felling of which forms the chicf trade of the inhabitants.-By the prefent โpirited exertions of the gentlemea in this populous county, the commerce and the induitry of the inhabitants have of late been greatly increafed ; and to facilitate the communication with other parts, application has been made to parliament for leave to levy a tas on the proprieturs of land for improving the roads and ereating bridges in this extenfive thire. The commonalty in the high parts of the county and on the weltern thore fpeak Gaelic; but the people of falhion in Invernefs and its vicinity ufe the Englifl language, and pronomes it with atharikatio pronricty.

## I N V [ 302$] \quad \mathrm{I} \mathrm{N}$ V

Thement The following is a view of the population of the difthire ferent parilhes in the county at two difierent periods.* Inverfion.

- Starif. Hif.vil.xx.

Parijbes.

| 1 | Abernethy | 1670 | 1769 |
| :---: | :---: | :---: | :---: |
|  | Alvie | 1021 | 1011 |
|  | Arderfier | 428 | 1298 |
|  | Bolefkine | 1961 | 1741 |
| 5 | Conveth or Kiltarlity | 1964 | 2495 |
|  | Cromdale | 3063 | 3000 |
|  | Croy | 1901 | 1552 $-\quad 1$ |
|  | Daviot | 2176 | 1697 |
|  | Durris | 1520 | ${ }^{1} 365$ |
| 10 | Glenelg | 1816 | 2746 |
|  | Invernefs | 9730 | 10,527 |
|  | Kilmanivaig | 2995 | 2400 |
|  | kilmalie | 3093 | 4031 |
|  | Kilmorack | $283^{\circ}$ | 2318 |
| 15 | Kinguflie | 1900 | 1983 |
|  | Kirkhill | 1360 | 1570 |
|  | Laggan | 1460 | 1512 |
|  | Moy | 1693 | 1813 |
|  | Petty | 1643 | 1518 |
| 23 | Urquhart | 1943 | 2355 |
|  | Continental part | 46,167 | 48,701 |

Ifands.

| ¢ Bracadale | 1907 | 2250 |
| :---: | :---: | :---: |
| Diurinifh | 2568 | 3000 |
| Kilmuir | 1572 | 2065 |
| Sky $\{$ Portre | 1385 | 1980 |
| 25 Sleat | 1250 | 1788 |
| Snizort | 1627 | 1808 |
| Strath | 943 | 1579 |
| - | 11,252 | 14,470 |
| Barry | 1150 | 1604 |
| South Uift | 2209 | 3450 |
| $3 \bigcirc$ North Uift | 1909 | 3218 |
| 31 Harris | 1969 | 2536 |
| Total inlands | 18,489 | 25,278 |
| Total | 65,656 | $\begin{array}{r} 73,979 \\ 64,656 \end{array}$ |
|  | Incr | 9323 |

INVERSE, is applied to a manner of working the sule of three. See Arithmetic, $n^{0}{ }^{1} 3$.

INVERSION, the act whereby any thing is inverted or turned backwards. Problems in geometry and arithmetic are often proved by inverfion; that is, by a contrary rule or operation.

Inversion, in Grammar, is where the words of a phrafe are ranged in a marner not fo natural as they sright be. For an infance: "Of all vices, the molt abcminable, and that which leaft becomes a man, is impurity." Here is an inverfion; the natural order beirgr this: Impurity is the moft abominable of all vices, and that which leaft becones a man.- An inverfon is rat always difagreeable, but fometimes has a gcod effect.

INVERTED, in $M_{14} / i$, is derived from the Latin Invel prepofition in, and vertere, "to turn any thing a contrary way."

Invoca
It fignifies a change in the order of the notes which form a chord, or in the parts which compofe harmony : which happens by fubftituting in the bafs, thofe founds which ought to have been in the upper part : an operation not only rendered practicable, but greatly facilitated by the refemblance which one note has to another in different octaves; whence we derive the power of of exchanging one oftave for another with fo much propriety and fuccefs, or by fubitituting in the extremes thofe which ought to have occupied the middle fation; and vice verfa. See Music.

INVEST'IG A'IION, properly denotes the learching or finding out any thing by the tracts or prints of the feet; whence mathematicians, fchoolmen, and gram. marians, come to ufe the term in their refpective refearches.

INVESTING a PlACE, is when a general, having an intention to befiege it, detaches a body of horie to poffels all the avenues; blocking up the garrifon, and preventing relief from getting into the place, till the army and artillery are got up to form the fiege.

INVESTITURE, in Law, a giving livery of feifin or poffeffion. There was anciently a great variety of ceremonies ufed upon inveftitures; as at firlt they were made by a certain form of words, and afterwards by fuch things as had the greateft refemblance to the thing to be transferred: thus, where lands were intended to pafs, a turf, \&c. was delivered by the granter to the grantee. In the church, it was cuftomary for princes to make inveftiture of ecclefialtical benefices, by delivering to the perfon they had chofen a paftoral ftaff and a ring.

INVISIBLE lady, an amufing experiment in $A$. coufics, which was exhibited in this country, firlt by a Frenchman, and afterwards by others; in which, from the conftruction of the apparatus, a lady who converfed, fung and played on mufical inftruments, feemed to be enclofed in a hollow metallic globe, of about a foot in diameter. See SciENCE, Amufements of.

INULA, elecampane; a genus of plants belong. ing to the fyngenefia clafs; and in the natural method ranking under the 49 th order, Compofite. Sce Botany Index.

INUNDAT无, the name of the 15 th order in Linnæus's fragments of a natural method; conlilling of plants which grow in the water. See Borany, p. 309.

INUNDATION, a fudden overflowing of the dry land iy the waters of the occan, rivers, lakes, fprings, or rains.

INVOCATION, in Theology, the act of adoring God, and efpecially of addreffing him in prayer for his affiftance and protection. Sce the articles Adoration and Prayer.

The difference between the invocation of God and of the faints, as practifed by the Papills, is thus explained in the catechifm of the council of Prent. "We beg of God (fays the catechiim), to give us good things, and to deliver us from evil; but we pray to the faints, to intercede with God and obtain thofe things which we t'and in need of. Hence we ufe different forms in praying to Gcd and to the laists: to the fomer we fay,

Incation hear us, have mercy on us; to the latter we only fay, "1 pray for us." The council of Trent exprefsly teaches, that the faints who reign with Jefus Chrill offer up their praycrs to God for men; and condemn thofe who maintain the contrary doctrine. The Protellants rejest and cenfure this practice as contrary to Scripture. deny the truth of the fact, and think it highly unreafonable to fuppofe that à limited finite being nould be in a wanner omniprefent, and at one and the farne time hear and attend to the prayers that are offered to him in England, China, and Peru; and from thence infer, that if the faints cannot hear their requefts, it is inconfiftent with common fenfe to addrefs any kind of prayer to them.

Invocation, in Poetry, an addrefs at the beginning of a poem, wherein the poet calls for the aftilance of fome divinity, particularly of his mufe, or the deity of poetry.

INYOICE, an account in writing of the particulars of merchandife, with their value, cuftoms, charges, \&ic. traumitied by one merchant to another in a difant countrs.

INVOLUCRUM, among botanifts, expreffes that fort of cup which furrounds a number of fiowers together, every one of which has belide this general cup its orrn particular perianthium. The involucrum contilts of a multitude of little leaves difpofed in a radiated manner. See Calyx.

INVOLUTION, in Aigebra, the raifing any quantily from its rout to any height or porver afigged. - Sec Aigebra.

IO, in fabulous hiltory, danghter of Inachus, or according to others of Jafus or Firene, was prieftefs of Juno at Arcos. Iupiter became enamoured of her; but $J_{1 n}$, jealous of his intrigues, difcovered the abjest of his afection, and furprifed lim in the company of Io. Juniter changed his miltrels into a beautiful heifer; and the gor.def, who well knew the fraud, obtained from her hufbund the animal whofe beauty the had condefcended to commend. Juno commanded the hundredeyed Argus to watch the beifer; but Jupiter, amx:ous for the fituation of Io, fent Mercury to deffroy Argus, and to reltore her to liberty. lo, freed from the vigilance of Arguc, was now perfecuted by Juno, who fent one of the Furies to torment her. She wandered over the greateft part of the earth, and croffed over the fer, till at laf fhe flopped on the banks of the Nile, fill expoferl to the unceafing torments of the Fury. Here the entreated Jupiter to refore her to her natural form; and when the god had changed her from a heifer into a woman, the brought forth Epaphus. Afterwards the married Telegonus king of Fogypt, or Onits according to others; and the treated her fubje.fs with fuch mildnefs and humanity, that after death the received divine honours, and was worllipped under the name of 1/fs. According to Herodotus, Io was carried away by Phœnician merchants, who wifhed to mane reprifals for Europa who had been Folen from them by the Greeks.

JOAB, general of the army of King David, defeated the Syrians and the other enemies of David, and took the fort of Zion from the Jebufiter, who, thinking it impregnable, committed it to the care of the lame and blind, whom they placed on the walls. He fig2alized him? ?lf in all David's wars, but was guilty of
bafely muracring Aboncr and $\Delta$ mafa. Ife procercel andineries a reconciliation between Ablaiom and David; and afo il terward; flew Ablalom, contsaly to the exprefs orders Joan d'Are. of the king. He at length joined Adonjah's rarty; and was put to death by the order of Solomon, $s=14$
B. C.

JOACHIMITES, in Church-IIfory, the difciples of Joachim a Ciftertian monk, who was an abbot of Flora in Calabria, and a great preiender to infpiration.

The Joachimites were particulariy fond of certain ternaries: Ihe Father, they faid, operated from the beginning till the coming of the Son; the Son, from that time to theirs, which was the year 1260; and from that time the Holy Spirit was to operate in his tarn. 'Jhey alfo divided every thing relating to men, to doctrine, and the manner of living, into three claffes, according to the three perfons in the Jrinity: The firt ternary was that of men ; of whom the firlt clafs rwas that of married men, which had lafted during the whole period of the Father; the fecond was cierks, which had lafted during the time of the Son; and the laft was that of the monks, in which there was to be an uncommun effufion of grace by the Holy Spiri: : The fecond ternary was that of ductrine, viz the Old Teitament, the New, and the everlafing Gofpel; the firlt they afcribed to the Father, the fecond to the Son, and the third to the Hily Spirit: $\Lambda$ thid ternary confitted in the manner of living, viz. under the Father, men lived according to the hefli; under the Son, they lived according to the flefl and the fpirit; and under. the Holy Ghol?, they were to live according to the fpirit only.

JOAN, Pope, called by Platina Yohn V/IL. is fail to have held the holv fee between Leo 1 V . who died in 855 , and Benediat III. who died in 858. Marianus Scotus lays, fie lat two years five months and four days. Numberiels have been the controverfies, fables, and conjectures, relating to this pope. It is faid that a Cerman girl, pretending to be a man, went to Athers, where the made great progrefs in the fciences; ard afterward came to Rome in the fame habit. As fhe had a quick genius, and fpoke with a good grace in the public difputations and lectures, her great learning was adnired, and every une loved her extremely; fo that al. ter the death of Leo, the was cloofen pope, and performed all offices as fuch. Whildt the was in pofietion of this high dignity, hie was got with child; and as the was going in a folemn proceffion to the Lateran church, fhe was delivered of that child, between the Colifeun and Si Clement's church, in a moft public ilrect, before a crowd of people, and dicd on the foot, in $85 \%$ By way of embellifhing this fory, may be added the frecaution reported to have been afterward taken to avoid fuch amother accident. After the election of a pope, he was placed on a chair with an open feat, called the groping chair, when a deacon came moft devoutly behind and fatisfied himfelf of the pontiff's fex by feeling. This precaution, however, has been long deemed unnecefiny, becanfe the cardinats, it is alleged, take care to become fathers bufure they arrive at the pontif.cate.

Yoan a' Arc, or the Maid of Orlcans, whofe heroic behaviour in reanimating the expiring valour of the French nation, though by the moll fuperfitious means,
(pro:coding

## J O E

Jodna (pretending to be infpired), deferved a better fate. S'se
Joel. was buant by the Enulith as a forcerefs in 1421, aged
$\underbrace{\text { Joel. }}$ 2f. Sce Fraicte, $\mathbf{N}^{10} 101$.
JOANNA, St, or Hinzuan, one of the Comora illands in the fndian ocean. E. Long. 44. 15. S. Lat. 12. 35. See Hiszuas.

JO3, or Book of For, a canonical book of the Old Teftament, containing a marrative of a fcries of milfortumes which happened to a man whofe name was jubb, as a trial of his virtue and patience; together with the conferences he had with his cruel friends on the fubject of his misfortunes, and the manner in which he was reftored to eafe and happinefs. 'This book is filled with thofe noble, bold, and figurative expreflions, which conftitnte the very foul of poetry.

Many of the Jewilh rabbins pretend that this relation is altogether a fiction; others think it a fimple narrative of a matter of fact juft as it happened : while a third fort of critics acknowledge, that the groundwork of the ftory is true, but that it is written in a poetical Atrain, and decorated with peculiar circumltan. ces, to render the narration more profitable and entertaining.

The time is not fet down in which Job lived. Some have thought that be was much ancienter than Mofes, becaufe the law is never cited by Job or his friends, and becaufe it is related that Job himfelf offered facrifices. Some imagine that this book was written by himfelf; others fay, that Job wrote it orginally in Syriac or Arabic, and that Mofes tranflated it into Hebrew: but the rabbins generally pronounce Mofes to be the author of it ; and many Chriftian writers are of the fame opinion.

JOBBER, a perfon who undertakes jobs, or finall pieces of work.

In fome tatutes, jobber is ufed for a perfon who buys and fells for others. See Broker.

JOBBING, the bufinefs of a jobber.
Stock-Fobbing, denotes the practice of trafficking in the public funds, or of buying and felling tock with a view to its rife or fall. The term is commonly applied to the illegal practice of buying and felling fock for time, or of accounting for the differences in the rife or fall of any particular flock for a itipulated time, whether the buyer or feller be poffeffed of any fuch real ftock or not. See Slock-Brorer.

JOCASTA, in fabulous hifory, a daughter of Menoeceus, who married Laius king of 'Thebes, by whom the had Oidipus. She afterwards married her fon ©edipus, without knowing who he was, and had by him Eteocles, Polynices, \&c. When the difcovered that fhe had married her own fon and been guilty of inceft, the hanged herfelf in defpair. She is called Epicafta by fome mythologits.

JOCKEY, in the management of horfes; the perfon who trims up, and rides about horfes for fale.

JOEL, or the Proplecy of Joes, a canonical book of the Old Teflament. Joel was the fon of Pethuel, and the fecond of the twelve leffer prophets. The tlyle of this prophet is figurative, ftrong, and expreffive. He upbraids the Ifraelites for their idolatry, and foretels the calamities they flould fuffer as the punifhment of that fin: but he endeavours to fupport them with the comfort that their miferies fhould have an end upon their
reformation and repentance. Some writers, inferritg the order of time in which the nimor prophets lived frow the order in which they are placed in the Hebrew copies, conclude that Joel prophefied before Amos, who was contempolary with Uzziah, king of judah. Archbilhop Uher makes this interence from Joci's furetelling that drought, chap. iv. $7,8,9$. If we confider the main detigr of Joel's propinecy, we fhall be apt to cunclude, that it was uttcred after the captivity or the ten tribes; for he directs his difcourfe only to Judah, and freaks dillinetly of the facrifices and oblations that were daily made in the temple.

JOGHIS, a fect of heathen religious in the Ealt Indies, who never marry, nor hold any thing in private property; but live on alus, and practife ftrange feverities on themfelves.

They are fubject to a general, who fends them from one country to arother to preach. They are, properly, a kind of penitent pilgrims; and are fuppofed to be a branch of the ancient Gymnoforhints.

They frequent, principally, luch places as are confecrated by the devotion of the people, and pretend to live feveral days together without eating or drinking. After having gone throngh a coutle cf difripline for a certain time, they look on themfelves as impeccable, and privileged to do any thing; upon which they give a loofe to their paffions, and run into all manner of debauchery.

JOGUES, or Yoocs, certain ages, eras, or periods. of extraordinary length, in the chronology of the Hindoos. They are four in number; of which the following is an account, extracted from Halhed's Preface to the Code of Gentoo Laws, p. xxxvi.
I. The Suttee Jogue (or age of purity) is faid to have lafted three million two hundred thoufand years; and they hold that the life of man was extended in that age to one hundred thoufand years, and that his fature was 21 cubits.
2. The Tirtal Jogue (in which one-third of mankind was corrupted) they fuppofe to have confifted of two million four hundred thoufand years, and men lived to the age of ten thoufand years.
3. The Dwapaar Jogue (in which half of the human race hecame depraved) endured one million fix hundred thoufand years, and the life of man was then reduced to a thouland years.
4. The Collee Jogue (in which all mankind are corrupted, or rather leflened, for that is the true meaning of Collce) is the prefent era, which they fuppofe ordained to fubfift four hundred thouland years, of which near five thoufand are already paft ; and the life of man in that period is limited to one hundred years.

Concerning the Indian chronology, we have already had occafion to be pretty copious; fee Hindoos, $\mathrm{N}^{\circ} 19$, 22. We fall here, however, fubjoin Dr Robertion's obfervations on the above periods, from the Nutes to his Hiforical Difquifition concerning India.
"If (fays be *) we fuppofe the computation of time * p. $3^{60}$ in the Indian chronology to be made by folar or even by lunar years, nothing can be more extravagant in itfelf, or more repugnant to our mode of calculating the duration of the world, founded on facred and infailible authority. From one circumfance, however, which merits attention, we may conclude, that the informa-
tion which tre have hitherto received concerning the chronology of the Hindoos is very incorrect. We have, as far as I know, only five original accounts of the different Jogues or eras of the Hindoos. The firlt is given by MI. Rogers who received it from the Brahmins on the Coromandel coail. According to it, the Suttee Jogue is a period of one million feven hundred and twenty-eight thoufand years; the Tirtah Joyue is one million two hundred and ninety-fix thoufand years; the Dwapaar Jogue is eight hundred and fixty four thoufand. The duration of the Collee Jogue he does not §pecify; (Porve Ouverte, p. 179.). The next is that of M. Bierrier, who received it from the Brahmins of Benares. According to him, the duration of the Suttee Jogue was two million five hundred thoufand years; that of the Tirtah Jogue, one million two hundied thouland years; that of the Dwapaar Jogue is eight hundred and fixty.four thoufand years. Conserning the period of the Collee Jogue, he likewife is filent; (Vayages, tom. ii. p. 160.). The third is that of Colonel Dow; according to which the Suttee Jogue is a period of fourteen million of years, the Tirtal Jogue one million eighty thoufand, the Dwapaar Jogue feventy-two thoufand, and the Collee Jogue thirty-fix thoufand years; (Hif. of Hindof. vol. i. p. 2.). The fourth account is that of MI. le Gentil, who received it from the Brahmins of the Coromandel coalt; and as his information was acquired in the farme part of India, and derived from the fame fource with that of M. Roger, it agrees with his in every particular; (Mem. de l'Academ. des Sciences pour 1772 , tom. ii. part i. p. 176.). The fifth is the account of Mr Halhed, which has been already given. From this difcrepancy, not only of the total numbers, but of many of the articles in the different accounts, it is manifell that our information concerning Indian chronology is hitherto as uncertain as the whole fyitem of it is sild and fabulous. To me it appears highly probable, that when we underfand more thoroughly the principles upon which the factitious eras or jognes of the Hindoos have been formed, that we mav be more ab!e to reconcile their chronology to the true mode of computing time, founded on the authority of the Old Tellament ; and may likewife find reafon to conclude, that the account given by their aftronomers of the fituation of the heavenly bodies at the beginning of the Collee Jogue, is not elfablifhed by actual obfervation, but the refult of a retrofpective calculation."
$10 H N, S t$, the Baptist, the forerunner of Jefus Chrilt, was the fon of Zacharias and Elizabeth. He retired into a defert, where he lived on locufts and wild honey; and about the year 29 began to preach repentance, and to declare the comi.ng of the Mefliah. He baptized his difciples, and the following year Chrift himfelf was baptized by him in the river Jordan. Some time after, having reproved Herod Antipas, who had a criminal correfpondence "ith Herodias his brother Philip's wifc, he ": as calt into prifon, where he was beheaderl. His head was brought to Herodias; who, according to St Jerome, pierced his torgue with the bodkin the ufed to faten up her hair, to revenge herfeli after his death for the freedom of his reproafs.

Jонs, S!, the aponle, or the evangelif, was the brother of St James the Great, and the forn of Zonedec. IIt quitted the bufnefs of filling to follow Je!us, and Vol. XI. Part I.
was his beloved difciple. He was witnefe to the actions and miracles of his Mafter ; was prefent at his transtiguration on Mount I'abor; and was with him in the garden of Olives. He was the only apotle who followed him to the crofs; and to him Jefus le't the care of his muther. He was alfo the firtt apottle who knew him again after his relurrection. He preached the faith in Afia; and principally refided at Ephefus, where he waintained the mother of ons Lord. Ho is faid to have founded the churches of Smyrna, Pergamus, Thyatira, Sardis, Philadelphia, and Laodicea. He is alfo faid to have preached the gofpel amonglt the Parthians, and to have addrefled his firlt cpille to th it people. It is related, that, when at Rome, the emperor Domitian caufed him to be thrown into a caldron of boiling oil. when he came out unhurt; on which he was bauilhen! to the itle of Patmos, where lic wrote lis Apocalyple. After the death of Domitian, he returned to Ephefus, where he compofed his Gufpel, about the year gí; and died there, in the reign of 'Irajan, about the year アン2. agel 94.

Go'pel of St John, a canonical book of the New T: flament, containing a recital of the li $e$, wetions, doctrine, and death, of our Saviour Jefus Clirin, write: by St John the apoitle and evangelit.

St John wrote his Gofpel at Enhelus, after his return from the ille of Patmos, at the delire of the Chritiars of Atia. St Jerome fays, he would not undertake it, but on condition that they thould ap point: a public faft to implore the alfiltance $\mathrm{o}^{+}$Go.1; and that, the faf being ended, St John, filled with the Huly Gholt, broke out into thefe words: "In tie beginning was the Word," \&c. The ancients affign two reafons for this undertaking: the firit is, becaufe, in the other threc Gofpels, there was wanting the history of the begir.ning of Jefus Chrith's preaching, till the imprifurment of John the Baptin, which therefore he appiied himfelf paticularly to relate. 'The fecond reafon was, in order to remore the errors of the Cerintilans, Ebionites, and other fects. But Mr Lampe and Dr Lardner have urged feveral reafons to fhow that St John did not write againft Cerinthus or any other heretics in his Gofpel.

Rezclation of Sl John. Soc Apocalypse.
Youn of Salifury, bimop of Chartres in France, was born at Salibury in Wiltthire, in the begimning of the 12 th century. Where he imbibed the rudiments of his education, is unknown: but we learn, that in the year 1136 , being then a youth, he was fent 10 Paris, where he ftudied under feveral eminent froiefors, and acquired confiderable fame for his application and froficiency in rhetoric, poetry, divinty, and particularly in the learned languages. Thence he iravelled to Italy: and, during fis refdence at Rome, was in high favour with Pope Eugenio III. and his fucceffor Adrian IV. After his return to Engl:and, lae became the intimate friend and companion of the famous Tho. mas Becket, archbilhop of Canterbury, whom he attended in his exile, and is faid to have beens prefent whon that haughty prelate was mundered in lis cathedral. What preferment be had in the elurch durng this time, docs not appear ; but in 1170 he was promuted by Kilig Henry II. to the bihhopric of Charters in France, where he died in 1182 . This Johs of Sithfbury was really a phenomenon. He was one of the fint

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Shbn. reforers of the Greek and Latin languages in Europe; a clallical fcholar, a philofopher, a learned divinex and an elegant Latin poet. He wrote feveral books; the principal of which are, his Life of St Thomas of Canierbury, a collection of letters, and Polycraticon.

Pope John X.YMI. a native of Cahors, before called Games $d \times$ Eufe, was well frilled in the civil and canon law; and was elected pope after the death of Clement $V$. on the jth of Auguf 13 ró. He publithed the conftitutions calied Clementines. which were made by his predectior ; and drew up the other conflitutions called Fivravagantes. Lewis of Bavaria being eiecled emperor, John XXII. oppofed him in favour of his competiior; which made much noife, and was attended with fatal confequences. That prince, in 1329, caufed the antipope Peter de Corbiero, a cordelier, to be elected, who took the name of Nicholas V. and was fupported by IIthael de Cefenne, general of his order; but that antipope was the following year taken and carried to Arignon, where he begged pardon of the pope with a sope about his neck, and died in prifon two or three years after. Under this pope arofe the famous quelfion among the cordeliers, called the bread of the cordicliers; which was, Whether thofe monks had the property of the things given them, at the time they were making whe of them? for example, Whether the bread belongcd to them when they were eating it, or to the pope, or to the Roman church? This frivolous queftion gave great employment to the pope; as well as thofe which turned upon the colour, form, and ftuff, of their habits, whether they ought to be white, gray, or black; whether the cowl ought to be pointed or round, large or fmall; whether their robes ought to be full, fhort, or long; of clath, or of ferge, \& c. The difputes on all thefe minute tritles were carried fo far between the minor brothers, that fome of them were burned upon the occafion. He died at Avignon in 1334 , aged 90.

Johs, king of England. See Exgland, N ${ }^{\circ} 135$, 147.

## fohn of Fordoun. See Fordous:

Эoun of Gaunt, duke of Lancalter, a renomed general, father of Henry IV. king of England, died in 14.38.

Fonn of Leyden, otherwife called Buccold. See AnaBAPTISTS.

Yohn Sobiefki of Poland, one of the greateft warmors in the 17 th century, was, in 1665 , made grand-marihal of the crown; and, in 1667, grand-general of the kingdom. His victoriez obtained over the Tartars and the Turks procured him the crown, to which he was eleced in 1674. He was an encourager of arts and iciences, and the protestor of learned men. He died in 1696 , aged 72.

St Youn's Day, the name of two Chriftian fellivals; one nblerved on June $24^{\text {th }}$, kept in commemoration of the wonderful circumftances attending the birth of John the Baptift ; and the other on December 27. in honour of St John the evangelift.

Si Yohn's Why. See Hypericum, Botany Inder.
Juhn's, Si, an illand of the Eaft Indies, and one of the Philippines, eaft of Mindanao, from which it is leparited by a narrow ftrait. E. Long. 125.25. N. Lat. 7.0.

John's, St, an illand of North America, in the bay
of Si Lawrence, having New Scotland on the fouth Johnfo and weft, and Cape Breton on the eait. The Britifh got poffilion of it when Louibourg was fursendered to them, on July 26.1758.

JOHNSON. BEs, nne of the maft confiderable dramatic poets of the lalt age, whether we confider the number or the merit of his produtions. He was born at Weftminfter in 1574 , and was etacated at the public fohool there under the great Canden. He was defcended from a Scuttiin family; and his father, who lof his eftate under Queen Mary, dying before our poet was born, and his mother marrying a bricklayer for her fecond huband, Ben was taken from fchool to work at his father in-law's trade. Nut being captivated with this cmployment, he went into the Low Countries, and ditinguified himfelf in a military capacity. On his return to England, he entered himfelf at St John's college, Cambridge ; and having killed a perfon in a duel, was condemned, and narrowly efcaped execution. After this he turned actor; and Shakefpeare is faid to have firf introduced him to the world, by recommending a play of his to the fage, after it had been rejected. His Alchymitt gained him fuch reputation, that in 1619 he was, at the death of Mr Daniel, made poet-laureat to King James I. and mafter of arts at Oxford. As we do not find Jonnfon's neconomical virtues anywhere recorded, it is the lefs to be wondered at, that after this we find him petitioning King Charles, on his accelfion, to enlarge his father's allowance of 100 merks into pounds; and quickly after we learn that he was very poor and fick, lodging in an obfcure alley; on which occation it was, that Charles, being prevailed on in his favour, font him ten guineas; which Ben receiving faid, "His majelty has fent me ten guineas, becaufe I am poor, and live in an alley; go and tell him, that his foul lives in an alley." He died in Auguft 1637 , aged 63 years, and was buried in Weftminfter-Abbey. - The moft complete edition of his works was printed in 1756, in 7 vols 8ro.

Johnson, Dr Samiuel, who has been flyled the brighteft ornament of the 1 Sth century, was born in the city of Litchfield in Staffordhire, on the s Sth of September N. S. 1709. His father Michael was a bookfeller; and mult have had fome reputation in the city, as he mose than once bore the office of chief magiftrate. By what cafuintical reafoning he reconciled his confcience to the oaths required to be taken by all who occupy fuch ftations, cannot now be known ; but it is certain that he was zealoully attached to the exiled family, and intilled the fame principles into the youthful mind of his fon. So much was he in earneft in this work, and at fo early a period did he commence it, that when Dr Sacheverel, in his memorable tour through England, came to Litchfield, Mr Johnfon carried his fon, not then quite three years old, to the cathedral; and placed him on his houlders, that he might fee as well as hear the far-famed preacher.

But political prejudices were not the only bad things which young Sam inherited from his father: he derived from the fame fource a morbid melancholy, which, though it neither deprefled his imagination, nor clouded his perfpicuity, filled him with dreadful apprehenfions of infanity, and rendered hirn wreiched through life.

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life. From lis nurfe he contracted the fcrofula or King's evil, which made its appearance at a very early period, disfigured a lace naturally well-formed, and deprived him of the fight of one of his cyes.

When arrived at a proper arge for grammatical infruction, he was placed in the free fchool of Litchield, of which one Mr Liunter was then malter; a man whom his illutrious pupil thought "very fevere, and wrong-keadsdly fevere," becaufe he would beat a boy for not anfwering queftiuns which he could not expeit to be alked. He was, however, a failful teacher; and Johnion, when be flood in the very front of learning, was fenlible how much he owed to him; for upon being atked how he had acquired fo accurate a knowledge of the Latin tongue, he replied, "IIy matter beat me sery well; without that, Sir, I thould have done nothing."

At the age of 15 Johnfon was removed from Litchfield to the fchool of Stourbridge in Worceltermire, at which he remained little more than a ycar, and then returned home, where he ftaid two years without any fettled plan of life or any regular courfe of ftudy. He read, however, a great deal in a defultory manner, as chance threw books in hisway, and as inclination directed him through them; fo that when in his $19^{\text {th }}$ year he was entered a commoner of Pembroke college, Oxford, his mind was flored with a variety of fuch linowledge as is not often acquired in univerlities, where boys feldon read any books but what are put into their lrands by their tutors. He had given very carly proofs of his poetical genius both in his fchool cacrcifes and in other occafional compofitions: but what is perhaps nore remarkable, as it fhows that he muth have thought much on a fubject on which other boys of that age feldom think at all, he had before he was 14 entertained doubts of the truth of revelation. From the melancholy of his temper thefe would vaturally prey upon his firits, and give him great unealinefs: but they were lappily removed by a proper courfc of reading; for "his tudies being boneft, ended in convichion. He found that religion is true; and what he had learned, he ever afterwards endeavoured to teach."

Concerning his relidence in the univerfity and the means by which he was there fopported, his two principal biographers contradict each other; fo that the fe are points of which we cannot write with certainty. According to Sir John Hawkins, the time of his coninuance at Oxtord is divifible into two periods: Mr Bofwell reprefents it as only one period, with the ufual interval of a long vacation. Sir John lays, that he was fupported at college by Mr Andrew Corbet in quality of affitant in the fadies of his fon: Mr Bofwell affures us, that though he was promifed pecuniary aid by Mr Corbet, that promife was not in any degree fulfilled. We thould be inclined to adopt the Enight's account of this tranfaction, were it not palpably inconffent with itfelf. He fays, that the two young men were entered in Pembroke on the fame day; that Corbet continued in the college two years; and yet that Johnfon was driven home in little more than ene year, becaufe by the removal of Corbet he was deprived of his penfion. A ftory, of which one part contradiets the other, cannot wholly be true. Si-

John adds, that " mecting with another fource, the J !mfor. bounty, as it is fuppofed, of fome one or more of the members of the cathedral of Lichfield, he returned to college, and made up the whole of his refi lence in the univerfity about threc years." Mr Befwell has told us nothing but that Johnfon, tioough his father was unable to fupport him, continued three sars in college, and was then driven from it by extreme porerty.

Thefe gentlemen differ likewife in their accounts of Johnfon's tutors. Sir John Hawkins fars that he had two, Mre Jordan and Dr Adams. Mr' Bofivell affirms that Dr Adams corld not be his tutor, becaufe Jordaa did not quit the college till $173^{2}$; the year in the autumn of which Johnfon himfelt was compelled to leave Oxford. Yet the fame author repre!ents Dr $\Lambda$ dams as faying, "I was Johnfon's nominal tutor, but he was above my mark :" a fpeech of which it is not eafy to difcover the meaning, if it was not Johnfon's duty to attend Adams's lectures. In moll colleges we believe there are two tutors in different departments of education; and therefore it is not improbable that Jordan and Adans may have been tutors to Johnfon at the fame time, the one in languages, the other in feience. Jordan was a man of fuch mean abilitics, that thongls his popil loved him for the goodnefs of his heart, he would often rifk the payment of a foall fine, rather than attend hir lectures; hor was he ftudious to conceal the reafon of his absence. Upon occafion of one fuch impofition, be faid, "Sir, you bave fconced ne twoyence for non-attendance ai a lecture not worth a penny." For fome tranferefifion or abfence his tutor impored opon him as a Chritmas exerci?e the tatrin of trantating into Latin verfe Pope's Mefralz; which being hown to the author of the original, was read and returned with this encomium, "The writer of this poem vill !eave it a quetion for polterity, whether his or mine be the ori. ginal." 'The particular courfe of his reading while in college, and during the vacation which lie palled at home, camot be traced. That at this jeriod he read much, we have his own evidence iis what he afterward, told the king; but his mode of fudy was never regular, and at all times he thought more than he real. He informed Mr Bofwell, that what he reat flidiy ai Oxford was Greek, and that the ftudy of which he was molt fond was metaphyfics.

It was in the ycar 173 t that Johnfon left the univerfity without a degree; and as his fither, who died in the month of December of that year, had Cuffered great misfortunes in trade, he was driven out a cnntmeiner of nature, and excluted from the regialar modes of profit and profperity. Having therefore not only a profeltion but the means of fublillence to feck, he accepred, in the month of March 1732, an invitation to the ofice of under-mafter of a free fchool at Market l3ofworth in Leicefterlhire : but not knowisg, as he faid, whether it was more difagreeable for him to teach or for the boys to learn the grammar-rules, and being likewile difguiked at the treatment which he received from the patrom of the fchool, be relinquificd in a few months a fi:ustion which he ever afterwards recollected with horror. Being thus again withost any fixed employment, and with very little money in his preket, le tramhated Lonbo's voyage to Abyffinia, for the tritting fum, it is faid, of Give guineas, which he received from a bookfeller in
? $\mathrm{I}_{2}$
Birminghan.

## $3 \mathrm{OH}\left[\begin{array}{lll}308 & \mathrm{H} & \mathrm{O} \mathrm{H}\end{array}\right.$

 certain he made to procure pecuniary affitance by means of his pen; and it muft have held forth very little encouragement to his commencing author by profeffion.In 1735, being then in his 26 th year, he married Mrs Porter, the widow of a mercer in Birmingham; whofe age was almott double his; whofe evternal form, according to Garrick and others, had never been captivating; and whofe fortune amounted to hardly 8ool. That the had a fuperiority of undertanding and talents is extremely probable, both becaufe the certainly infpired him with a more than ordinary paflion, and becaule the was herfelf fo delighted with the charms of his converfation as to overlook his external difadvantages, which were many and great. He now fet up a private academy; for which purpofe he hired a large houfe well fituated sear his native city: but his name laving then mothing of that celebrity which afterwards commanded the attention and refpect of mankind, this undertaking dici nut fucceed. The only pupils who are known to have been placed under his care, were the celebrated Dasid Garrick, his brother George Garrick, and a young gentleman of fortune whofe name was Ofiely: He kept his academy only a year and a hal; ; and it was during that time that he confructed the plan and wrote a great part of his tragedy of Irene.

The refpectable charaher of his parents and his own merit had fecured him a kind reception in the beft families at Litchfeld; and he was particularly diftinguithed by Mr Walmilley regiter of the ecclefiafical court, a man of great worth and of very extenfive and various erudition. That gentleman, upon hearing part of Irene read, thought fo highly of Johnfon's abilities as a dramatic writer, that he advifed hin by all means to finith the tragedy and produce it on the flage. To me:s of gerins the flage holds forth temptations almolt refiftef. The profits arifing from a tragedy, including the reprefentation and printing of it, and the connections which it fometimes enables the author to form, were in Johnfon's imagination inellimable. Flattered, it mav be fuppofed, with thefe hopes, he fet out fome time in the year 17.37 with his pupil David Garrick for London, leaviry Mrs lohnfon to take care of the houfe and the wreck of her fortune. The two adventurers carried with them from Mr Walmfley an earnent recommendation to the reverend Mr Colfon, then mafler of an academy, and afterwards Lucalian profeffor of mathematics in the univerfity of Cambridge; but from that gentleman it does not appear that Johnfon found either protection or encouragement.

How he lipent his time upon his frff going to Lon. d $a$ is not particularly known. His travedy was refufed by the managers of that day; and for fome years the Gentleman's Magazine feems to have been his principal refource for employment and fupport. To enumerate his various communications to that far-famed mifceilany, would extend this article beyond the limits which we can afford. Suffice it to fay, that his connection with Cave the proprietor became very clofe; that he wro:e prefaces, effays, reviews of books, and porme; and shat les was occationnily employed in correcting the papers written by other correfpondents.

When the complaints of the nation ayainlt the adminiftration of Sir Robert Walpole became loud, and a motion was made, February $13.1745-1$, to remove lim from his majelly's counfels forever, Juhnfon was pitched upon by Cave to write what was in the Murgazine intitled Debatcs in the Senate of Lilliput, but was underftoud to be the fpeeches of the moft eminent members in both boufes of parliamert. Thefe orations, which induced Volaaire to compare Britith with ancient eloquence, were haftily Aketched by Johnfon while he was not yet $3^{2}$ years od, while he was little acquainted with life, while he was Atruggling, not for dullinction but for exiftence. Perhaps in none of his writings has he given a more confpicuous proof of a mind prompt and vigorous almoit beyond conception : for they were compoled from fcanty nutes taken by illiterate perlons employed to attend in both houles; and fometimes he had nothing communicated to him but the names of the feveral feakers, and the part which they took in the debate.

His feparate publications which at this time attrasted the greatell notice were, "London, a Poem in imitation of Juvenal's third Satire;" "Marmor Nirfokierte, or an Elfay on an ancient prophetical Infcription in Monkifh Rhyme, lately difcovered near Lynne in Norfolk;" and "A complete Vindication of the Licenfers of the Stage from the malicious and fcandalous aferfions of Mr Brook author of Gultavus Vafa." 'The poem, which was publithed in 1738 by Dodiley, is uisverfally known and admired as the moll lpirited inftance in the Englifh language of ancient fentiments adapted to modern topics. Pope, who then filled the poetical throne without a rival, being informed that the author's name was Juhnfon, and that he was an obfcure perfon, replied, " he will foon be diterre." The other two pamphlets, which were publihed in I7.39, are filled with keen fatire on the government : an I though Sir John Hawkins has thought fit to declare that they difplay neither learning nor wit, Pope was of a different opinion ; for in a note of his preferved by Mr Bolivell, he favs, that "the whole of the Norfolk prophecy is very humorous."

Mrs Johnfon, who went to London Coon after her huband, now lived fometimes in one place aud fometimes in another, fometimes in the city and fometimes at Greenwich: but Johnfon himfelf was oftener to be found at St John's Gate, where the Gentleman's Magazine was publifhed, than in his own lodgings. It was there that he became acquainted with Savage, with whom he was induced, probably by the fimilarity of their circumllances, to contract a very clofe friendfhip; and fuch were their extreme neceffities, that they bave often wandered whole nights in the Areet for want of money to procure them a lodging. In one of thefe nocturnal rambles, when their diffrefs was almoll incredible, fo far were they from being depreffed by their fituation, that in ligh fpirits and brimful of patriotifm, they traverfed St James's Square for feveral hours, inveighed againtt the minifter; and, as Johnfon faid in ridicule of himfelf, his companion, and all fuch patriots, "refolved that they would fand by their country !"' In 174t, he publimed the life of his unfortunate companion; a work which, had he never written any thing clfe, would have olacat him very
pinin. high in the rank of authors (A). His narrative is remarkabiy finooth and well difpofed, his obfervations are jult, and his renections difclofe the iamolk receffes of the luuman heart.

Lu 1740, when Drury-lane theatre was opened under the management of Garrick, Johnfon wrote a prologue for the occafio: ; which for jult dramatic crisicifm on the whole range of the Englith tage, as well as for poetical excellence, is conferfedly unrivalled. But this year is, in his life, dillinguilhed as the epoch when his arduous and important work, the Dictionary of the Engliih Language, was announced to the world by the publication of its plan or profpectus, addrelled to the earl of Ciselterfield. From that nobleram Johnfon was certainly led to expea patronage and encouragement; and it feems to be equally certain that his lordihip expected, when the book hould be publifhed, to be honoured with the dedication. The expetations of buth were difapnointed. Lord Chellerfeld, after feeing the lexicographer once or twice, fuffered him to be reoulfed from his door: but afterwards thinking to co:ciiliate tim when the work was upon the eve of publication, he wrote two papers in "The World," warmly recummending it to the public. This artifice was feen through ; and Jhonfon, in very polite language, rejected his lord:hip's advances, letting bin know, that he was unwilling the public mould confider him as ovtug to a patron that which Providence had enabled him to do for himfelf. This great and laborious work its autior expected to complete in three years: but he was certainly emplosed upon it feven; for we know that it was begun in 1747, and the la!! theet was fent to the prels in the end of the year 1754 . When we confider the nature of the undertaking, it is indeed a.tonithing that it was frimh ed fo foon, fince it was writen, as he fays, "with little affiltance of the learned, and without any patronage of the great; not in the foft osfurities of retirement, or under the fielier of academic bowers, but amida inconverience and diffraction, in ficknefs and in forrow." The forrow, to which he here alludec, is probably that which he feli for the lofs of his wife, who died on the 17 th of Narch O. S. 1752, the lofs of whom he continued to lament as long as he lived.

The Didionary did not occupy his whole time: for while he was pulhing it forward, he fitted his tragedy for the fage; wrote the lives of feveral eminent men for the Gentleman's Magazine ; publithed an Imitation of the ioth Satire of Juvenal, entitled "The Vanity of human Wifhes;" and began and fnimed "The Rambler." This laft work is fo well-known, that it is hardly neceffary to fay that it was a periodical paper, publifhed twice a-week, from the 20th of March 1750 to the $17^{\text {th }}$ of March 1752 inclufive : but to give our readers fome notion of the vigour and promptitude of the author's mind, it may not be improper to obferve, that notwithfanding the feverity of his other labours, all the affiftance which he re-
ceived does not anount to five papers; and that many of the moft mafierly of thofe nnequalled eflays were writte: on the fpur of the occafion, and never leen ontire by the author till they returned to him from the prefs.

Soon after the Rambler was concluded, Dr Hawkefworth projected "The Adventurer" upon a fimilar plan; and by the affiltance of friends he was enabled to carry it on with almolt equal merit. lor a thort time, indeed, it was the moft popular work of the two; and the papers with the fignature $T$, which are confeitedly the mott fplendid in the whole collection, are no:s known to have been communicated by Johufon, who received for each the fum of two guineas. This was double the price for which he fold fermons to fuch clergymen as either would not or could not compofe their own difcourfes; and of fermon-writing he feems to have made a kind of trade.

Though he had exhaufted, during the time that he was employed on the Didtionary, more than the fum fur which the bookfellers had bargained for the copy; yet by means of the Rambler, Adventurer, fermons, and other productions of his pen, he now found himfelf in greater alluence than he had ever been before; and as the powers of his mind, dillended by long and levere exercife, required relaxation to re!lore them to their proper tone, he appears to have done liztle or nothing from the cloing of the Adventurer till the year 17,56 , when he fubmitted to the office of reviewer in the Literary Magazine. Of his revieiss by far the mot valuable is that of Soame Jennyns's "Free luquiry into the Nature and Origin of Evil." Never were wit and metaphyfical acutenefs miore clofely united than in that criticifn, which expofes the weaknefs and holds up to contempt the reafonings of thofe vain mortals, who prefumptuoully attempt to grafp the fale of exiftence, and to form plans of condue for the Creator of the univerfe. But the furnilhing of magazines, reviews, and even nerspapers with literary intelligence, and authors of books with dedications and prefaces, was confidered as an employment unworthy of Johnfon. It was therelore propofed by the bookfeliers that he fhould give a new edition of the dramas of Shakefpeare ; a w:ork which he had projected many years before, and of which he had publihed a frecimen which was commended by Warburton. When one of his friends expreffed a hope that this employmeat would furnih him with amufement and add to his fame, he replied, "I look upon it as I did upon the DiAtionary; it is all work; and my inducement to it is not love or defire of fame, but the want of mossey, which is the only motive to writing that I know of." He iliued propofa!s, however, of confiderable length ; in which he illowed that he knew perfectly what a variety of refearch fuch an undertaking required: but his iadolence prevented him from purfuing it with diligence, and it was not publiked till many years afterwards.

On the $t ;$ th of April 1758 he began a new periodical paper entitlcd "The Idler," which came out every Saturday
(.1) From the merit of this work Mr Bofwell has endeavoured to detract, by infinuating, that the perfon called Richard Savage was an impoltor, and not the fon of the carl of Rivers and the countefs of Macclesfield. See our. account of S.LVAGE.

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i弓olunfon. Saturday in a weekly newfpaper, called "the Uliverfal Chronicle, or Weekly Gazette," publifhed by Newbicrry. Of thefe eflays, which were continued till the 5th of April 1760 , many were written as haftily as an ordinary letter; and one in particular compofed at Oxford was begun onty half an hour before the departure of the poff which earried it to London. A bout this time he had the offer of a living, of which he might have rcudered himelf capable by cotcring into orders. It was a rectory in a pleafant country, of fuch yearly value as would have been an object to one in muck better circumftances; but fenfible, as it is fuppofed, of the afperity of his temper, he declined it, faying, "I have not the requilites for the office, and I cannot in my confeience fhear the flock which I am unable to feed."

In the month of January 1759 his mother died at the great age of 90 ; an event which deeply affected him, and gave birth to the 4 If Idler, in which he laments, that "the life which made his own life pleafant was at an end, and that the gate of death was thut upon his profpects." Soon afterwards he wrote his "Raflelas Prince of Abyfinia; that with the profits lie might defray the expence of his mother's funeral, and pay fume debts which fhe had left. He told a friend, that he received for the copy 1001 . and 251 . more when it came to a fecond edition; that he wrote it in the evenings of one week, fent it to the prefs in portions as it was written, and had never ince read it over.

Hitherto, notwithfanding his various publications, he was poor, and obliged to provide by his labour for the wants of the day that was pafing over him; but having been early in 1762 reprefented to the king as a very learned and good man without any certain provifion, his majefly was plealed to grant him a penfion, which Lord Bute, then firft minifter, affured him "was not given for any thing which he was to do, but for what he liad already done.". A fixed annuity of three hundred pounds, if it diminihed his diftrefs. increaled his indolence; for as he conflantly avowed that he had no other notive for writing than to gain money, as he had now what was abundantly fnficient for all his purpofes, as he delighted in converfation, and was vifited and admired by the witty, the elegant, and the learned, very little of his time was patt in folitary fludy. Solitude was indeed his averfion; and that he might avoid it as much as pofible, Sir Iolhua Reynolds and he, in 1764 , infituted a club, which exifed long without a name, but was afterwards known by the title of the Literary Club. It confilted of fome of the moft enlightened men of the age, who met at the Turk's Head in Gerard-ftreet, Soho, one evening in every week at feven, and till a late hour enjoyed "the feall of reafon and the How of foul."

In 1765 , when Johnfon was more than ufually op-, preffed with conflitutional melancholy, he was fortunately introduced into the family of Mr Thrale, one of the moft eminent brewers in Lngland, and member of parliament for the borough of Southwark : and it is but juftice to acknowiedge, that to the affifance which Mr and Mrs Thrale gave him, to the fhelter which their houfe, afforded him for 16 or 17 years, and to the pains which they took to foothe or reprefs his uneafy fancies, the public is prolably indebted for
fome of the mont mafterly as well as mon popular johutc works which he ever produced. At lergth, in the October of this year, he gave to the world his edition of Shakefpeare, which is chietly valuable for the prefoce, where the excellencies and defects of that im mortal bard are difplayed with fuch judgement, as mutt pleafe every man whole tafte is not regulated by the itandard of fathion or national prejudice. In 1767 lee was honoured by a private converfation with the king in the library at the queen's houfe: and two years afterwards, upon the eftablihment of the royal academy of yainting, iculpture, \&xc. he was nominated profeffor of ancient literature; an office merely honorary, and conferred on him, as is fuppofed, at the recommendation of his friend the prefident.

In the variety of fubjects on which he had hitherto exerciled his pen, he had forborre, fince the adminiftation of Sir Robert Walpole, to meddle with the difputes of contending factions; but having feen with indignation the methods which, in the bufinefs of Mr Wilkes, were taken to work upon the populace, he publifhed in 1770 a pamphlet, entitled "'The Falfe Alarm;" in which he allerts, and labours to prove by a variety of arguments founded on precedents, that the expultion of a member of the houfe of commons is equivalent to exclufion, and that no fuch calamity as the fubverfion of the confitution $u$ as to le feared from an act warranted by ufage, which is the law of parliament. Whatever may be thought of the principles maintained in this publication, it nnqueftionably contains much wit and much argument, exprefied in the author's belf flyse of compofition; and yet it is hown to have been written between eight o'clock on Wednelday night and twelve o'clock on the Thurfday night, when it was read to Mr Thrale upon his coming from the houfe of commons. In 1,71 he publifhed another political pamphiet, entitled, " Thoughts on the late tranfactions refpecing Falkland's illands;" in which he attacked $\mathcal{F u n i u s}:$ and he ever afterwards delighted himfelf with the thought of having deftroyed that able writer, whom he certainly furpafied in nervous language and pointed ridicule.

In 1773 he vifited with Mr Bofwell fume of the moft cunfiderable of the Hebrides or Weitern. Iflands of Scotland, and publithed an account of his journey in a volume which abounds in extenfive philofophical views of focicty, ingenious fentiments, and livcly defrription, but which offended many perfons by the violent attack which it made cn the authenticity of the poems attributed to Oilian. For the degree of offence that was taken, the book can bardly be thought to contain a fufficient reafon : if the antiguity of thele poems be yet doubted, it is owing more to the conduct of their edior than to the violence of Johnfon. In 1774, the palliament being diffolved, he addreffed to the elečtcrs of Great Britain a pamphlet, entitled "The Patriot;" of which the defign was to guard them from impofition, and teach them to diftinguift true from falfe patriotifm. In 1775 he publifhed "Taxation no tyranny; in anfwer to the refolutions and addrefs of the American Congrefs." In this performance his admirer Mr Bofwell cannot, he fays, perceive that ability of argument or that felicity of expreffion for which on other occafions Johnfon was fo eminent. This is a fingular criticifm. To the aflumed

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principle upon which the reafoning of the parmphlet refts many have objected, and perhaps their objections are well founded; but if it be admitted that "the fuprome porrer of crery community has the right of requiring from all its fubjects fuch contributions as are neceliary to the public fafety or public profperity," it will be found a very difficult tatk to break the chain of arguments by which it is proved that the Brition parliament had a right to taw the Amesicans. As to the exprefly reader, who adopts the maxim recorded in the "Journal of a tour to the Hebrides," that a controvertift " ought not to Atrike foft in battle," mutt acknowledge that it is uncommonly happy, and that the whole performance is one of the molt briliiant as well as moft correct pieces of compofition that ever fell from the pen of its author. Thefe eflays drew upon him rulmerous attacks, all of which he heartily defpifed; for though it has been fuppofed that "A letter addreffed to Dr Samuel Johnfon occafioned by his political publications," gave him great uneainefs, the contrary is manifeft, from his having, after the appearance of that letter, collected them into a volume with the title of "Political 'Iracts by the author of the Rambler." In ${ }_{17} 65$ Prinity College Dublin had created him LL.D. by diploma, and he now received the fame honour from the univerfity of Oxford; an honcur with which, though he did not boall $\mathrm{c}^{\circ}$ it, he was highly gratificd. In 1777 he was induced, by a cafe of a very extraordinary nature, to exercife that humanity which in him was obedient to every call. Dr William Dodd, a clergyman, under fentence of death for the crime of forgery, found means to interelt Johnfon in his behalf, and procured from him two of the moft encrgetic compofitions of the kind cver foen; the one a petition from himlelf to the king, the other a like addrefs from his wife to the qucen. Thefe petitions failed of fuccefs.

The principal bookfellers in London having determined to publifl a body of Englih poetry, Johnfon was prevailed upon to write the lives of the poets, and give a character of the works of each. 'This talks he undertook with alacrity, and executed it in fuch a manner as mult convince every competent reader, that as a biographer and a critic, no nation can produce his equal. The work was publifhed in ten fmall volemes, of which the firt four came abroad $177^{8}$, and the others in 1781 . While the world in general was filled with admiration of the Rupendous powers of that man, who at the age of feventy-two, and labouring under a complication of difeafes, could preduce a work which difplays fo much genius and fo much learning, there were narrow circles in which prejudice and refentment "ere follered, and whence attacks of different forts iffued againt him. Thefe gave him not the fmalleft difturbance. When told of the lecble, though frill, outcry that had been raifed, he faid-"Sir, I confidered myfelf as entrulled with a certain portion of truth. I have given my opinion fincerely : let them thow where they think me wromg."

He had hardly begun to reap the laurels gained by this performance, when death deprived him of Mr Thrale, in whofe houfe he had enjoyed the molt comfortable hours of his life; but it abated not in Johnfor that care for the interefts of thofe whom his fricud
had left behind him, which he thought himfelf bound johnfon.: to cherim, both in duty as one of the exceutors of his will, and from the nobler principle of gratitude. On this account, his vilits to Streatham, Mr 'l'hrale's villa, were for fome time after his death regularly made on Monday and protracted till Saturday, as they had been during his life; but they foon became lefs and lefs frequent, and he fludioully avoided the mention of the place or the family. Mrs Thrale, now Piozzi, fays indeed, that "it grew extremely perplexing and diffcult to live in the houfe with him when the mafter of it was no more; becaule his dillikes grew capricious, and he could farce bear to have any body come to the houfe whom it was abfolutely neceffary for her to fee." The perfon whom the thought it moft neceflary for her to fce may perhaps be gueffed at without any fuperior flare of fagacity; and if thele were the rifits which Johnfon could bear, we are fo far from thinking his dillikes capricious, though they may have been perplexing, that if he had acted otherwife, we fhould have blamed him for want of gratitude to the friend whofe " face for fifteen years had mever been turned upon him but with refpect or benignity:"

About the middle of June 1783 his conftitution fuftained a feverer fhock than it had ever hefore felt, by a ftioke of the palfy; fo fudden and fo violent, that it awakened him out of a found fleep, and rendered him for a thort time fpeechlefs. As ufual, his recourfe under this affliction was to piety, which in him was conflant, fincere, and fervent. He tried to repeat the Lord's prayer firt in Englifh, then in Latin, and afterwards in Greek; but fucceeded only in the laft attempt; immediately afier which he was again deprived of the power of articulation. From this alarming attack he recovered with wonderful quicknels, but it left behind it fome prefages of an hydropic affection; and he was foon afterwards feized with a fuafmodic afthma of fuch violence that he was confined to the houle in great pain, while his dropfy. increafed, notwithfanding all the efforts of the mof eminent phylicians in London and Edimburgh. He had, however, fuch an interval of eafe as enabled him in the fummer 1784 to wifit his friends at Oxford, Litchfald, and Ahbourne in Derbyhire. The Rumith religion being introduced one day as the topic of converlation when he was in the houfe of Dr Adams, Johnfon faid, "If you join the Papits externally, they will not interrogate you ilrictly as to your belief in their tenets. No realoning Papilt believes every article of their faith. There is one fide on which a good man might be perfuaded to embrace it. A good man of a timorous difpoftion, in great doub: of his accepiance with God, and pretty creaulcus, might be glad of a church where there are fo many helps to go to heaven. I would be a Papin if $I$ could. I have fear chough; but an obfinate rationality prevents me. I fhall never be a Papit unlefs on the near approach of death, of which I have very grea: terror."

His conflant dread of death was indeed fo great, that it aftoninhed all who had accefs to know the piety of his mind and the vistucs of his life. Attempts have been made to accourt for it in varicus ways; but doubtlefs that is the true account which is giver in the Olla P'odrida, by an elegant and pious writer, who now adorns a high fation in the church of England. "That lie diould

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Joinicn. hould not be confcious of the abilities with which Providence had blefled him was impoffible. He felt his uwn powers: he felt what he was capable of having performed; and he faw how little, comparatively fpeaking, he had performed. Hence his apprelocufion on the near profpect of the account to be made, viewed through the medium of contlitutional and morbid melancholy, which often excluded from his fight the bright beams of divine mercy." This, however, was the cafe only while death was approaching trom fome dillance. From the time that he rras certain it was near, all his fears were calmed; and he died on the 13 th of December $1 ヶ 8 \frac{1}{4}$, full of refignation, ftrengthened by faith, and joyful in hope.

For a juft character of this great man our limits afford not room: we muft therefore content ourfelves with laying before our readers a very thort Aletch. His flature was tall, his limbs were large, his ftrength was more than common, and his activity in early life had been greater than fuch a form gave reafon to expect : but he was fubject to an infirmity of the convulfive kind, refembling the dittemper called St Vitus's dance; and he had the feeds of fo many difeales fown in his conftitution, that a thort time before his death he declared that he hardly remembered to have paffed one day whally free from pain. He poffefled very extraordi. nary powers of underftanding; which were much cultivated by reading, and Aill more by meditation andreffection. His memory was remarkably retentive, his imagination uncommonly vigorous, and his judgement keen and penetrating. He read with great rapidity, retained with wonderful exactnefs what he fo eafilly collected, and poffefled the power of reducing to order and fyilem the feattered hints on any fubject which he had gathered from different books. It would not perhaps be fafe to claim for him the ligheft place, among his contemporaries, in any fingle department of literature; but, to ufe one of his own expreflions, he brought more mind to every fubject, and had a freater variety of knowledge ready for all occafions, than any other man that could be eafily named.'Though prone to fuperfition, he was in all other refpects fo remarkably incredulous, that Hogarth faid while Johnfon firmly believed the Bible, he feemed determined to believe nothing but the Bible. Of the importance of religion he had a Arong fenfe, and his zeal for its intere?s were always awake, fo that profancenes of every kind was abathed in his prefence.The fame cncrgy which was difplayed in his literary productions, was exhibited alfo in his converfation, which was various, ftriking, and inftructive: like the fage in Raffelas, he fooke, and attention watched his lips; he reafoned, and convition clofed his periods: when he pleafed, he could be the greatell fophift that ever contended in the lifts of declamation; and perhaps no man ever equalled him in nervous and pointed repartees. His veracity, from the moft trivial to the mot folemn occafions, was flrict even to reverity: he foomed to embellith a fory with fizitious circumflances; for what is not a reprefentation of reality, he ufed to fay, is not worthy of our attention. As his putfe and his houle were ever open to the indigent, fo was his heart tender to thofe who wanted relief, and his foul was fufceptible of gratitude and every kind imprelion. He bad a roughnefs in his manner which
fubdued the faucy ard terrified the meek : but it was onlij in his reanner; lor no man was more loved than Johnfon was by thofe who knew him; and his works will be read with veneration for their author as long as the language in which they are written thall be underflood.

JOHNSTON, Dr Arthur, was born at Caikieben, near Aberdeen, the feat of his ancefiors, and probably was educated at Aberdeen, as he was afterwards advanced to the higheft dignity in that univerfity. The fludy he chiefly applied himfelf to was that of phyfic ; and to improve himfelf in that fcience, he travelled into foreign parts. He was twice at Rome; but the chief place of his refidence was Padua, in which univerfity the degree of M . D. was conferred on him in 1610 , as appears by a MS. copy of verfes in the advocate's library in Edinburgh. After leaving Padua, he travelled through the reft of Italy, and over Germany, Denmark, England, Holland, and other countries; and at length lettled in France; where he met with great applaufe as a Latin poet. He lived there 20 years, and by two wives had 13 children. After 2.4 years ablence, he returned into Scotland in $1 \sigma_{32}$. It appears by the council books at Edimburgh, that the doctor had a fuit at law before that court about that time. In the year following, it is very well known that Chatles I. went into Scotland, and made Bihop Laud, then with him, a mennber of that council : and by this accident, it is probable, that acquaintance began between the doflor and that prelate, which produced his "Plalmorum Davidis Paraphrafum Poetica;" for we find that, in the Came year, the doctor printed a fpecimen of his Pfalms at London, and dedi. cated them to his lordflip.

He procceded to perfect the whole, which took him up four years; and the firf edition complete was publilled at Aberdeen in 1637, and at London the fame year. In 1641, Dr Johnfon being at Oxford, on a vifit to one of his daughters who was married to a divine of the church of England in that place, was feized with a violent diarrhoa, of which he died in a few days, in the $54^{\text {th }}$ year of his age, not without having feen the begiming of thofe troubles that proved to fatal to his patron. He was buried in the place where he died; which gave occafion to the following lines of his learned friend Wedderburn in his Sufpiria on the doctor's death:

## Scotia mafla, dole, tantividuata Sepulchro <br> Vais : is Angligenis contigit attus hanos

In what year Dr Johniton was made phyfician to the king does not appear: it is mofl likely that the archbilhop procured him that honour at his coming into England in 1633 , at which time he tranflated Solomon's Song into Latin elegiac verfe, and dedicated it to his maielly. His Pfalms were reprinted at Middleburgh, $16+2$; London, 1657 ; Cambridge,....; Amlterdam 1706; Edinburgh, by William Lauder, 1739 ; and laft on the plan of the Delphin clafics, at London, 1745 , 8 vo, at the expence of Auditor Benfon, who dedicated them to his late majetly, and prefixed to this edition memoirs of Dr Johnfon, with the teftimonies of various learned perfons. A laboured comparifoa between the two tranflations of liuchanan and Johnfon was printed the fame year in Euglifh,

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in 8 vo, entitled, A Prefatory Difcourfe to Dr Johnflon's Pfalms, \&c. and A Conclufion to it. His tranf. Jations of the Te Deum, Creed, Decalogue, \&ic. were fubjoined to the Pfalms. His other poetical works are his Epigrams; his Parerga: and his Mulfa Anglica, or commendatory Verfes upon perfons of rank in church and flate at that time.

JOIGNY, a town of France, in Champagne, and in the diocefe of Sens, with a very handfome caltle. It confits of three parifhes, and is pleafantly fituated on the river Yonne, in E. Long. 3. 25. N. Lat. 47. 56.

JOINERY, the art of working in wood, or of fitting various pieces of timber together. It is called by the French menuiferie, "fmall work," to diftinguih it from carpentry, which is employed about large and lefs curious works.

JOINT, in general, denotes the juncture of two or more things. The joints of the human body are called by anatomifts articulations. See ANatomy, No 2.

The fupplenefs to which the joints may be brought by long practice from the time of infancy, is very turprifing. Every common pofture-matter thows us a great deal of this; but one of the moft wonderful inJlances we ever had of 'it, was in a perfon of the name of Clark, and famous for it in London, where he was commonly known by the name of Clark the pofure. mafer. This man liad found the way, by long practice, to diftort many of the bones, of which nobody Lefore had every thought it pulfible to alter the pofition. He had fuch an abiolute command of his mufcles and joints, that he could almoft disjoint his whole body : fo that he once impofed on the famous Mullens by his diftortions, in fuch a manner, that he refuled to undertake his cure: but, to the amazement of the phyfician, no fooner had he given over his patient, than he faw him reftore himfelf to the figure and condition of a proper man, with no diftortion abcut him.

JOINTURE, in Law, generally fignifies a fettlement of lands and tenements, made on a woman in confideration of marriage.

JOINVILLE, an ancient and coniderable town of France, in Champagne, with the title of a principality, and a large magnificent caftle. It is fituated on the river Marne, in E. Long. 5. 10. N. Lat. 48. 23.
JOISTS, or JoysTs, in Architeclure, thofe pieces of timber framed into the girders and fummers, on which the boards of the floor are laid.

## JOKES. See Jesting.

1OLAIA, a fertival at Thebes, the fame as that called Herackia. It was inffituted in honour of Hercules and his friend Iolas, who allifled hins in conquering the hydra. It continued during feveral ciays, on the frit of which were offered folemn facrifices. The nest day horfe-races and athletic exercifes were exhisited. The fullowing day was fet apart for wretiling; the victors were crowned with garlands of myrte geterally uled at funeral frelemnitiec. They were tmetines rewarded with tripods of brafs. The place whace ti:e cxerciles were e:hibited was called Iolioion; where there were to be feen the morument of Am, hitryon and the cenotaph of Iolas, who was l:uried in Sand nia. Thele monuments wele firewed with gariands and tlowers on the day of the fettival.
Yo1.0 XI. Part I.

Iollas or Iolaus, in Fabulous Hifory, a fon of Iphiclus king of Thefialy, who affited Hercules in conquering the hydra, and burnt with a hot iron the place where the heads had been cut off, to prevent the growth of others. He was reftored to his youth and vigour by Hebe, at the requeft of his friend Hercules. Some time afterwards Lolas alfited the Heraclidx againft Euryfheus, and killed the tyrant with his own hand. According to Plutarch, Iolas had a monument in Bocotia and Phocis, where lovers ufed to go and bind themelves by the molt folemn oaths of fidclity, confidering the place as facred to love and friendilip. According to Diodorus and Paufanias, Iolas died and was buried in Sardinia, where he had gone to makc a fettlement at the head of the fons of Hercules by the 50 daughters of Thefpius.

JOLLOXOCHITL, an Indian word, fignifying fower of the heart, is the name of a plant which bears a large beautiful flower, growing in Mexico, where it is much efteemed for its beauty and odour; which latter is fo powerful, that a ingle flower is fufficient to fill a whole houfe with the mott pleafing fragrance.

ION, in Fabulsus Hipory, a fon of Xuthus and Creula daughter of Erechtheus, who married Helice, the daughter of Selinus king of 厄igiale. He fucceeded to the throne of his father-in-law; and built a city, which he called Helice on account of his wife. His fubjects from him received the name of Ionians, and the country that of Iomia. See Ionia.

Iox, a tragic poet of Chios, who flourifhed about the 82d Olympiad. His tragedies were reprefented at Athens, where they met with univerfal applaufe. He is mentioned and greatly recommended by Arillophanes and Athenxuc ${ }_{2}$ \&c.

IONA, Josa, or Icolmkill, one of the Hebrides; a fmall, but celebrated illand, " once the fuminary of the Caledonian regions (as Dr Johnfun exprefles it), whence Cavage clans and roving barbarians derived the benefits of knowledge and the bleflings of religion." The name Yona is derived from a Hebrew word fignifying a dure, in allufion to its patron Culumba, who landed here in 565 . See Cormans. - It in faid to have been a feat of the druids before his arrival, when its name in Irih was Inis Drunifb, or the " Druid Illand." The druids being expelled or converted, he founded here a cell of canons regular, who till 716 differed from the church of Rome, in the obfervance of Ealter and in the tonfure. After his death, the illand retained his name, and was called Tcohumb cill or "Columb's ce!!," now Icolmbill. The Danes dillodged the monks in the $9^{\text {th }}$ century, and Cluniacs were the next order that fettled here.

This itland, which telongs to the parih of Rofs in Mull, is three miles long, and one broad: the cail fide is motlly tlat : the middle rifes into fmall hills; and the welt fide is very rude and rocky: the whole forming a fingular misture of rock and fettiiity. - There is in the illand ouly one town, or rather tilldge, confiting of about 60 mean houfes. The population in 1798 amounted to about 330 . Near the town is the bay of Martyrs tlain by the Daries. Anchlong inclofiure, bounded by a tlone dyke, and called clachinan Drurnach, in which bo:ies, have been found, is fuppoited t) Dave been a burial-place of the Duids or rather the common cemetcry of the tosns-peuple. Beyond

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anna. the town are the ruins of the numery of Auftin cationeffes, dediated to St Oran, and faid to be founded by Columba: the church was 58 feet by 20 , and tle ealf roof is entire. On the howr, covered deep with cors-dung, is the tomb of the latt priorefs, with her figure praying to the Virgin Mary, and this infcription on the ledge: Hic jacet domina Anma Domaldi Ferlcti filia, quondarit prioreffa de Jona, quee olint an'o $97{ }^{\circ} i^{\circ}$ ximo ejus animam Silt:limo commeridamus; and another infcribed, Hic jacet Harion filia Johan: Lauchfoin domini de..... A broad paved way leads hence to the cathedral; and on this way is a large land fome crols called Macleane's, the only one that remain.s of 360 , which were demolimed here at the Reformation. Reilig Ouran, or the Burying-place of Oran, is the larre inclofure where the kings of Scotland, Ireland, and of the illes, and their defcendants, were buried in three feveral chapels. The dean of the illes, who travelled over them 1549, and whofe account has been copied by Bachanan, and puolifhed at Edinburgh 1784, fays, that in his time on one of thele chapels (or "tumbes of fain formit like little chapels with ane braid gray marble or quhin fiain on the gavil of ilk ane of the tombes," containing, as the chronicle fays, the remains of 48 Scutch monarchs, from Fergus II. to Macbeth, 16 of whom were pretended to be of the race of Alpin) was infcribed, Tumulus regum Scotice. 'I he next was infcribed, Tumulus regum Hibernice, and cui.tained four Irilh monarchs: and the third, inforibed Tomulus regum Norquegie, contained eight Norwegian princes, or viceroys of the Hebrides while they were fubject to the crown of Norway. Boctius lays, that Fergus founded this abbey for the burial-place of his fucceifors, and caufed an othe to be com?efed for the funeral ceremory. All that Mr Pennant could difcover here were only certain flight remains, built in a ridged form and arched within, but the inferiytions lolt. Thefe were called Jormaire nan righ, or "the ridge of the kings:" Among thefe ltoncs are to be feen only thefe two infcriptions in the Gaelic or Erfe language and ancient $\mathrm{I}_{\mathrm{ith}}$ characters: Cror Domhail fat'afich, i. c. "the crofs of Donald Longflanks", and that of Urchine o Guin; and awother it:fcribed Hic jaccnt priores de Hy, Johannes, Hugenius, Patricius, in decrctis olim bacu!arius, gui obiut an. Dom. milles kio quingentcimo. About 300 infcriptions were collceted here by Mr Sacheverel in 1688 and given to the earl of Argyle, but afterwards loft in the tuoubles of the family. The place is in a manner filled with grave-ftones, but fo overgrown with weeds, that ferw or none are at prefent to be feen, far lefs any inferiptions read. Here alfo ftands the chapel of St Oran, the firft building begun by Columba, which the evil fpirits would not fuffer to fand till fome human victim twas bunied alive; for which fervice Oran otfered himfelf, and lis red grave-ftone is near the dnor. In this chafel are tombs of feveral chiefs, \& \& A little north-well of the door is the pedeftal of a crofs: on it are ce:tain llones that feern to have been the fupports of a tomb. Numbers who vift this illand think it incumbent on them to turn each of thefe thrice round, accorüng to the courfe of thic fun. '1hey are called Clacha-brath; for it is thought that the Lrcih, or end of the world, will not arnive till the peedeftal on which they ftand is worn through. Onigi.
naily (fays Mr Sachevere]) here were three noble globes of white marble, placed on three ftone balonc, and thefe were turned round; but the fynod ordered them and 60 croftes to be thrown into the fea. The prefent ftones are probably fubfituted in place of thefe globes. The precinct of thefe tombs was held facred, and enjosed the privileges of a ginth or fanctuary. Thele places of retreat were by the ancient Scotch law, not to Melter indilcriminately every offender, as was the cafe in more bigotted times in Catholic countries; for here all atrocious criminals were eacluded; and only the unfortunate delinguent, or the penitent finner, was thelded from the inftant Aroke of rigorous juftice. A little to the north of this inclolure fands the cathedral, buiit in form of a crofs, 115 feet long by 23 , the tranfept 70 feet: the pillars of the choir have their capitals charged with feripture and other hiftories; and ncar the altar are the tombs of two abbots and a knight. A fragment remains of the altarftonc of white marble veined with gray. This church is afcribed to Maldwin in the $7^{\text {th }}$ centry; but the prefent fructure is far too magnificent for that age. Nolt of the walls are built of red granite from the Nun's ifland in the found. 'Two parailel walls of a covered way about 12 feet high and 10 wide, reach from the fouth-ealt corner to the fea. In the church-yard is a fine crofs of a fing le piece of red granite, it feet high, 22 inches broad, and ro inches thick. Near the louth. eaft end is Mary's chapel. The morailery is behind the cliapel ; of which only a piece of the cloifters remaine, and fome facred black flones in a corner, on which contrakts and alliances were made and oaths fworn. Eaft of it was the abbot's gardens and offices. Narth of this was the palace of the bithop of the illes after the feparation of Nan from them. I his fee was endowed with 13 illands; feveral of which were frecisently taken away by the chieftains. The titie of Soder, Whicls Lome explained Soter, ZWhap, "the name of Chrilt, or Soder, an inaginary town," is really desivicd from the dillinction of the diocefe into the northern illands or Norderess (i.e. all to the north of Adnamurchan point), and the Southern or Sudereys; which lat being the mot important, the ille of IIIan retained both titles.

Other ruins of monalic buildings and offices may be traced, as we!l as fome druidical fepulchral remains. Several abbeys were derived from this, which witls the illand was govemed by an abbot-prelbyter, who lind rule even orer bilhops. The place whare Columba landed is a pebbly beach, where a heap of earth reprefents the form of his thip. Near it is a hill with a circle of tiones called Cnoc-nar aimgeal, or "the hill of angels," with whom the faint beld conference; and on Michaelmas day the inhabitants courfed their liorles round it, a remain of the cultom of bringing them there to be bleffed. In former times, this ifland was the place where the archives of Scotland and many valuable old manufcripts were kept. Of the fe mott are fuppofed to have been dellroyed at the Reformation; but many, it is faid, were carricel to the Scotch college at Donay in France, and it is hoped lome of them may nill be recovered. In tle illand of lona a fchoolmatter is eftablithed; but there is no temple for worthip, no inflructor in religion, excepting the fochoolmafer, unlefs it is vifited by the parifs minifter from another illand.

JONAH;

## J O N

Jonah

JONAH, or Prophecy of Yomar, a canonical book of the Old Teellanent; in which it is related, that Jomath (about 77 , B. C.) was ordered to go and prophecy the dellruation of the Nincrites, on account of their reputation at Venice, Chriftian IV. invited him to Denmark, and appointed him his architect; but on what buildings he was employed in that country, we are yet to learn. James I. found him a: Copenhagen, and Queen Anne took him in the quality of her archicest to Scotland. He ferved Prince Henry in the fame capacity, and the place of furveyor-general of the works was granted to him in reverfion. On the death of that prince, with whom at leaf all his lamented qualities did not die, Jones travelled once more into Italy, and, affined by ripenefs of judgment, perfected his tate. To the interval between there voyages $\mathrm{Mr}_{\mathrm{r}}$ Walpole is inclined to affign thole buildings of Inigo,

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which are lees pure, and border too much upon the bafard file, which one may call King Games's Gothic. idea, that one forgets for a moment (fays Mr Valpole), in the regret for its not being executed, the confirmation of our liberties, obtained by a melancholy fence that palled before the windows of that very Ban-queting-houfe.
In 1623 he was employed at Somerfet-houfe, where a chapel was to be fitted up for the Infanta, the intended bride of the prince. The chapel is 1 ill in being. The front to the river, part only of what was defigned, and the water-gate, were erected afterwards on the deigns of Inigo, as was the gate at Yorkfairs.

On the acceffion of Charles, Jones was continued in R r 2






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Jence. his pofts under both king and queea. His fee as furveyor was 83. 4 d. a day, with an allowance of 461 . ayear for houfe-rent, befides a clerk, and incidental expences. Whlat greater rewards he had, are not upon record.

During the profpercus flate of the king's affairs, the plealures of the court were carried on with much tafte and magnificence. Poerry, painting, mufic, and architedure, were all called in to make then: rational amufeme:..c. Mr Walpole is of epinion, that the celebrated feflivals of J.cuis XIV. were copied from the fhows exhibited at Whitehall, in his time the mof polite court in Europe. Ben Johnfon was the laureat; Inigo Jones the inventor of the decorations; Laniere and Ferabofco compofed the fymphonies; the king, the queen, and the young nobility, danced in the interludes. We lave accounts of many of thofe entertainments, called mafques; they had been intreduced by Anne of Denmark. Lord Burlington had a folio of the defigns for thefe folemnities, by Inigo's own hand, confifting of hatits, mafks, frenes, \& c. The harmony of theefe mafks was a little interrupted by a war that broke out between the compofers, Inigo and Ben, in which, whoever was the aggreffor, the turbulent temper of Johnfon took care to be moft in the wrong.

The works of Inigo Jones are not fearce; Surgeon's ball is one of his belt works. One of the mot admired is the arcade of Covent-garden, and the church: "Two ftructures (fays Mr Walpole), of which I want tafte to fee the beauties. In the arcade there is nothing remarkable; the pilafters are as arrant and homely fripes as any plafterer would make. The barn-soof over the portico of the church Arikes my cyes with as little idea of dignity and beauty, as it could do if it covered nothing but a barn. It muft be cwned, that the defect is not in the architect, but in the order.-Who ever faw a beautiful Tufcan build. ing ? Would the Romans have chofen that order for a temple ?" The expence of building that church was 45001.

Ambrefbury in Wilthire was defigned by Jones, but executed by his fcholar Webb. Jones was one of the firf that obferved the fame diminution of pilafters as in pillars. Lindfay-houfe in Lincoln's-Inn Fields, which he built, owes its chief grace to this fingularity. In 1618, a fecial commiffion was iflued to the lord-chancellor, the earls of Worcefter, Pembroke, Arundel, and others, to plant and reduce to uniformiev, Lincoln's-Inn Fields, as it flal! be drawn by way of map, or ground-plot, by Inigo Jones, furveyorgeneral of the works. That fquare is laid out with a regard to fo trilling a fingularity, as to be of the exact dimenfions of one of the pyramids: this would have been admired in thole ages when the keep at Kennelworth Caftle was erested in the form of an horfefetter, and the Efcurial in the fhape of St Laurence's gridiron.

Colefinill in Berkfhire, the feat of Sir Matthew Pleydel1, built in 1650, and Cobham-hałl in Kent, were Jones's. He was employed to rebuild Caftle Afhbry, and finihed one front: but the civil war interrupred his progrefs there and at Stoke-park in Northamptonfhire. Shaft fuury-houfe, now the London Lyingin hofpital, on the eaff fide of Alderfgate-ftreet, is a
beautiful front. The Granse, the fent of the lord chancellor Henlcy in Hampilitre. is entirely of his mafter. It is not a large houfc, but by far one of the bett proofs of his tafte. The hall, which opens to a frall vellibule with a cup la, and the flaircafe adjoining, are beautiful modeis of the pureft and moft clafic antiquity. The gate of Beaufort-garden at Cheliea, deligned by Jones, was purchafed by Lord Burtington, and tranfpoted to Chifuick. He drew a plan for a palace at Newmarket ; but not that wretched hovel that flands there at prefent. One of the moll beautiful of his works is the queen's houfe at Greenwich. The firft idea of the bofpital is faid to have been taken from his papers by his fcholar Webb. Heriot's hofpital in Edinburgh, and the improvements made in his time on Glammis caftle in Forfarfhire in Scotland, are Ipecimens of the defigns of Inigo Jones.

Inigo tafted early the misfortunes of his mafter. He was not only a favourite, but a Roman Catholic: in 1646 he paid 54 g l. for his delinquency and lequeftration. Whether it was before or after this fine, it is uncertain, that he and Stone the mafon buried their joint flock in Scotland yard ; but an order being publifhed to encourage the informers of fuch concealments, and four pericns being privy to the fyot where the money was hid, it was taken up, and reburied in Lambeth-marfh. Grief, misfortunes, and age, put an end to his life at Somerfet-houfe, July 21. 1651 . Several of his defigns have been publifhed by Mr Kent, MIr Colin Campbell, and Mr Ifaac Ware. He left in MS. fome curious notes on Palladio's architecture, which are inferted in an cdition of Palladio publifhed in 1714.
Joxes, Sir William, the fon of William Jones Efq. an eninent mathematician, cotemporary with the great Newton, was born in London on the 28 th of September 1746 , and received the rudiments of his education at Harrorr fchool, under the tuition of Dr Robert Sumner, whom he has celebrated in a eulogium which will probably be coeval with time. From Harrow fchool he went to Univerfity college, Oxford, where the rapidity of his literary acquifitions excited the admiration of all.

He travelled through France at the age of 23, taking up his refidence for fome time at Nice, where man, and the various forms of government, became the favourite objects of his inveltigation. A wih to reliere his mother from the burden of his education, made him long for a fellowfhip in his college, but having no immediate profpect of obtaining it, he in 1765 became tutor to yourg Lord Althorpe, afterwards Earl Spencer, in which fituation he was introduced to the be of company, and had alfo leifure to profecute the acquifition of knowledge, and the farther cultivation of his intellectual powers, which were objects ever dear to him.
He obtained next year, the fellowthip he expected, and was thus raifed to a fate which he could not help vicwing as independent. Being at Spa with his pupil in the year 1767, he employed much of his time in making himfelf acquainted with the German language; and in the following year he was requefted by the duke of Grafton's under-fecretary, to undertake a trauflation of a Perfian MS. of the life of Nadir Shaw, into the French language, of which the king of Denmark was

## $\mathrm{J} \mathrm{O} \mathrm{N} \quad\left[\begin{array}{ll}317\end{array}\right] \quad \mathrm{J} O \quad \mathrm{~N}$

Jones. anxious to have a verfion. This, his frit publication, appered in 1770 , with the addition of a treatife on oriental poetry, which was very much admired, on account of the elegance of the French Eyle and the accuracy of the trandlation. For this excellent publication it appears that he received nothing more than a diploma from his Danifh majelly, conftituting him a member of the Royal Society of Copenhagen, with a nuarra recommendation to the notice of his own fovereign.

That he might be enabled to gratify his commendable ambition, he now began to think ferioully of fome profeffion through life; and, as he had conceived an early predilection for the la: , he made that the object of his choice; and in the month of September 1770 , he entered at the Temple. Iet the ftudies of his pro. fefion did not prevent him from making thofe literary advances, in which he fo much delighted, and oriental literature fill continued a favourite object. When the life of Zoroalter by Anquetil du Perron made its appearance, in the preliminary difcourfe to which the univerfity of Oxford had heen attacked, our author defended it in a pamphlet written with feverity and with elegance. In $\mathbf{1 7 7 2}$, le publihed a fmall volume of poems, being tranflations from the Afiatic poets, remarkable for the grace and brilliancy of their ftyle; and in 1777 appeared his work "De Poefi Aliatica," the beauty and purity of the Latin in which it is compoled, exciting the admiration of men of literature both at home and abroad. He was called to the bar in the beginning of 1774 , but declined to act in that capacity without a previous knowledge of the actual bulinefs of the profeffion. He was appointed a commiltioner of bankrupts in 1776 , about which period he addreffed a letter to Lord Althorpe, in which he beantifully expreffes his ardent with to have contitutional liberty eftablithed by conttitutional means.

His tranflation of the fpeeches of Ifeus, on account of his elegant ityle, his profound critical and hiltorical knowledge, commanded the admiration of every competent judge. Soon after this his practice at the bar increafed with rapidity; but he had little reafon to Hatter himfelf with the profpect of adrancement in profelfional rank and dignity, becaufe he was known to be convinced of the injultice of the Britioh caufe refpecting the American war, which he was at no pains to conceal ; and therefore an cppoler of the meafures of thofe who had the direstion of public affairs, had little preferment to look for. In 1790 he became a candidate to fucceed to Sir Roger Newdigate as reprefentaiive in parliament for the univenfity of Oxford, in which he was refpectably fupporied; but his political fentiments were ill fuited to fecure him a majority, which made him decline the contelt prior to the election. He foon after publithed a pamphlet entitled "An Inquiry into the legal mode of fupprefing riots, with a contitutional plan of future defence," recommending the propriety of making every citizen a foldier in cales of imninent danger. He, next publifhed a tranflation of feven ancient poems of the highe? reputation in Arabia, which, with an ode on the marriage of Lord Althorve, procured for lim the highef reputation. His efay on the laws of bailments evas alfo much admired, as was bis fpeech at the London tavern.
in defence of a parliamentary reform in 1782.1 At Paris, he dreni up a dialogue between a farmer and a country gentleman on the principles of government, publifhed in Wales by the dean of $\mathrm{St} ~ \Lambda / \mathrm{aph}$, for which a bill of indietment was preferred againft that clergyman. In a letter to Lord Kenyon, Mr Jones avowed himfelf to be the author, and afferted the principles it contained to be perfectly agreeable to the Britilh conftitution; but it appears that he afterwards relaxed confiderably in his political ardour.

After the refignation of Lord North, and appointment of Lord Shelburne, Mr Jones was nominated one of the judges in the Britih territories of India, an sppointment which he had long withed for, as it would afford him an opportunity of profecuting his favcurite refearches into oriental literature. He was chofen a judge in March $\mathrm{r}^{8} 8_{3}$, and on the 20th of that month the honour of knighthood was conferred upon him. He arrived at Calcutta in September, and entered upon his office in December, opening the felfions with a very elegant charge to the grand jury. Here he planned the inltitution of a fociety fimilar to the Royal Socicty of London, many valuable labours and relearches of which are already in the hands of the public. He collected materials for a complete digeft of the Hindoo and Mahometan laws, which interelting work he did not live to bring to a conclufion. The publication of the " Aliatic Refearches" occupied much of his atten. tion. In 1789 he tranflated an ancient Indian drama cailied "Sacontala," which has been confidered as an interelling curiofity. In 1794 , he gave the world lis "Ordinances of Menu," a famous Indian legiflator, containing a §yltem of duties both civil and religious.

The climate of India proving unfavourable to the health of Lady lones, obliged her to return to England, whither Sir William foon defigned to follow her. On the 20th of April 1794, he was feized at Calcutta with an inflammation of the liver, which fet the powers of medicine at defiance, and on the $27^{\text {th }}$ of the farme month put a period to his exiftence without pain or itruggle.

It may be fairly afferted that ferv men have died more refpected or regretted, as fery have pafied a more ufeful and irreproachable life. The uncommon extent of his erudition has bcen difplayed in all his writings, and fearcely any fuhject of buman refearch cfeaped his notice. He has fearcely ever becn equalled as a linguift, for he is faid to have been more or lefs acquainted with about 28 different languages. Tatte and elegance marked all his exertions, and be might have rifen as a poet to the very firl rank. Great as his knowled ge was, his virtue and religion were not inferior. In whatever light we think proper to view him as flanding in relation to fociety, he was undoubtedly a patiern worthy of imitation.

Is a permanent monumient to his momory, his affectionate lady publithed his whole finithed works in lix quarto volumes, in the year 1799; and a marble monument to his memory by the fame condearing faiend, is placed in the antichamber of Univerfity collece, Oxford. The Ealt ladia Company alfo voted a nionument to his nemory in St Paul's cathocral, and a ftatue of him to be fent out to Bengal. Memoirs of his life were publithed by L.ord Ticignmouth, and a

## $\mathrm{J} O \mathrm{P} \quad\left[\begin{array}{ll}318\end{array}\right] \quad \mathrm{J} O \mathrm{~S}$

Intia fociety of gentlemen in Bengal who had been educnted at Oxford, fubleribed a fum for a prize diflertation on his character and merits, by lludents in that univer-
ity.

IONI A, a country of Afa Minor, bounded on the north by Eolia, on the wett hy the Aggean and Icarian feas, on the fouth by Caria, and on the eatt ly 1.ydia and part of Caria. It was founded by colonies f:cin Creece and particularly Attica, by the lonams or fubjects of lon. Ionia was divided into 12 limall 1tates, which formed a ceiebrated confederacy often mentioned by the ancient:. Thele 12 fates were Priene, Miletus, Colophon, Clazomena, Eplefus, Lebedos, Teos, Plioros, Erythre, Smyma, and the capitals of Samos and Chios. The inhabitants of Ionia built a temple which they called Pan Ionium from the concourfe of people that Hocked there from every part of Ionia. After they had enjuyed for fome time their freedom and independence, they were made tributary to the power of Lydia by Crocus. The Athenians
 monatcles; but they foon forgot their duty and relation to their mother-country, and joined Xerxes when he invaded Greece. They were delivered from the Perfian yoke by Alexander, and reftored to their original independence. 'They were reduced by the Romans under the dictator Sylla. lonia has beon always celebrated for the falubrity of the climate, the fruitulnefs of the foil, and the genius of its inhabitants.

IONFC order. See Architecture, ${ }^{\circ} 45$
Ionic Dialect, in Grommar, a manner of fpeaking peculiar to the people of Ionia.

Ionic Sect was the filf of the ancient fects of philofophers; the others were the lialic and Eleatic. The founder of this feet was Thales, who, being a mative or Miletus in Ionia, occafioned his followers to affiume the appellation of Iomic: Thales was fucceeded by Anaximander, and he by Anaximenes, both of Miletus; Anaxagoras Clazomenius fucceeded thers, and removed his fchool from Afia to Athens, where Sucrates was his fcholar. It was the diftinguifhing tenet of this fect, that water was the principle of all natural things.

IONIUN make, a part of the Mediteranean fea, at the bottom of the Adriatic. It lies between Sicily and Greece. ["hat part of the 压gean fea which lies on the coafts of Ionia in Afia, is called the Sea of Ionia, and not the Ionian fea. According to fome authors, the Ionian fea receives its name from Io, who fwam acrofs there after the had been metamorphofed into a heifer.

JONK, or JowQue, in maval affairs, is a kind of fmall hip, very common $\ln$ the Eait Indies. Thefe veffels are abocit the bignefs of our fly-boats; and differ in the form of their building, according to the different methods of naval architecture ufed by the nations to which they belong. Their fails are frequently made of mats, and their anchors are made of wood.
. 10 PI'A, a fea-port town in Paleftine, lying fouth of Cafarea; and anciently the only port to Jerufalem, whence a!! the materials fent from Tyre towards the building of Solomon's temple were brought hither and la oded, ( 2 Chr. ii. 16). It is faid to have been built by Japhet, and from him to lave taken its name

Fop ho, atterwards moulded into Joppa; and the very Freathen geographers fpeak of it as buit before the food. It is now called Yaffa, fomewhat meater to its fint appellation, and is but in a poor and mean condition.

IOR, the Hebrew for a river, which, joined with Dan, oncurs to form the term Furdar. See D.N.
jORDANO, Lucca, an eminerit Iudian painter, was bonn at Naples in 1632 . He became very eariy a difciple of Joieph Ribera; but going aftewards to Rome, he attached himfelf to the mamer of Pietro da Cortnna, whom he aflifted in his great works. Sonne of his pictures being feen by Charles 11 . king of Spain, he engaged him in painting the Efcurial; in whic!a tak lie acquitted himfelf as a great painter. The king flawed him a picture of Paflani, exprelaing his coicern that lie had not a companion: lucca painted one fo exafly in Bafteni's maner, that it was taken for a pertormance of that mather ; and for this fervice be was knighted, and pratificd with feveral honourable and valuable employments. The great woris he executed in Spain gave him till geater repulation when he returned to Naples; fo that though he was a very quick workman, he could not funply the eager demands of the citizens. No one, not cyen Tintoret, ever painted fo much as dordano; aid his gencrotity carried him fo far as to prefent altar-pieces to churches that were not able to purchafe them. His labours were rewarded with great riches; which he left to his family, when he died, in 1705.

JOSEPH, the fon of Jacob; memorable for his chaltity, and the honours conferred on him at the court of Egypt, \& \& . He died in 1635 B. C. aged 110.

JOSEPHUS, the celebrated hiftorian of the lews, was of noble birth, by his father Mattathias defeenced from the high-priefts, and by his mother of the bloo:royal of the Maccabees; he was born A. D. 37 , under Caligula, and lived under Domitian. At 16 years of age he betook himfelf to the fect of the Elienes, and then to the Pharifees; and haring been fuccefsful in a Journey to Rome, upon his retum to Judaca he was made captain-general of the Galilæans. Being taken prifoner by Vefafian, he foretold his coming to the empire, and his own deliverance by his means. He accompanied Titus at the fiege of Jerufalem, and wrote his "Wars of the Jews," which Titus ordered to be put in the public library. He afterwards lived at Rome, where he enjoyed the privileges of a Roman citizen, and where the emperors loaded him with favours, and granted him large penfions. Befides the above work, he wrote, 1. Twenty books of Jewihh antiquities, which he finilhed under Domitian. 2. Two books againft Apion. 3. An elegant difcourfe on the martyrdom of the Maccabees. 4. His own life. Thefe works are excellently written in Gicek.

JOSHUA, the renowned general of the Jews, who conducted them through the wildernefs, \&vc. died in 1424 K. C. aged 110.

Joshua, a canonical book of the Old Teflament, containing a liftory of the wars and tranfactions of the perfon whofe name it bears. This book may be divided into three parts: the firt of which is a hittory of the conqueft of the land of Canaan ; the fecond, which begins at the $t 2$ th chapter, is a delcription of that country, and the divifion of it among the tribes;

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forfiah and tho third, comprifed in the tivo laft chapters, co:1tains the senewal of the covenant he caufed the Ifraelites to make, and the death of their victorious leader aid govcinur. The whole comprehends a term of :?, or, accordiner to others, of 27 years.

JOSHAF, king of Judah, the deftroyer of idol:ttry, and the reforer of the true worlipp, an excellent magilrate, and a valiaut general, was flain in battle, 6 c 9 B. C.

JOIAPAMs, in Arcient Geograpiny, a town of the Lower Galilee, dittant 40 itadia from Gabara; a very dirong place, ituated on a rock, walled round, and encompuled on all hands with mountains, fo as not to be feen but by thofe who came rery near. It was with great difficulty taken by Vefpatian, being defended by Jofephus, who commanded in it; when taken, it way ordereá to be rafed.

JOVIAN, the Roman emperor, elected by the army, after the death of Julian the apottate, in 363. He at firf refufed, faying he would not commaid idolatrous foldiers; but, upon an allurance that they would embrace Chrillianity, he accepted the throne, ani immediately flut all the Pagan temilles, and forbace their facrifices. But he did not long enjoy the dignity to which his merit had raifed him; being fuffocated in his bed by the fumes of a fire that had been made to dry the chamber, in 364 , the 33 d of lis age, and the eighth month of his reign. See ConSIANTINOPLE, NO 67 .

JOVIUs, PAUl, in Italian Gionio, a celebrated lintorian, was bom at Como in Italy, in the year 1483 . As his father died in his infancy, lie was educated by his eldeft brother Benediat jovius, under whom he became well filled in clatical learning; and then weat to Rome, for the lake of enjoying the henefit of the Vatican library. He there wrote his firlt piece, $D e$ fictbus Romanis, which he dedicated to Cardinal Lewis of Bourbon. He received a penfion of 500 crowns for many years from Francis I. king of France, whofe favour he fecured by his Hatteries. But, in the fol-lowing-reign. having difgutted the contable Montmorency, his name was itruck out of the liit of pentioners. Jovius did not futfer his firits to fink under his miffortune: he had obtained a high reputation in the learned world by his writings; and having always fhowed great refpect to the houfe of Medicis, on whofe praifes he had expatiated in his works, he applied to Clement VII. and obtained the bilhoprick of Nocera. His priticipal picce is his hiftory, which is that of his own time throughont the world, beginning with 1494 , and exrending to the year 1544. This was the chief Lulmels of lsis life. For he formed the plan of it in the year 1515 ; and continued upon it till his death, whicls happened at Florence in 1552 . It is printed in three volumes folio. He is alluwed to have been a man of wit as well as learaing: be was matler of a bright and polilhed flyic, and has many curious obiervations: but being a veual writer, liss hillories are not much redited.

JOURNAL, a day-book, regiller, or account of "hat pafies daily. Sce Diary.

Journai, in merchants accounte, is a book into which every particular article is polted out of the walleLook, and made debtor. This is to be very clearly worded, and fairly engroffed. See Boor-Keeping.

Iourvas, in Nacigation. a fort of diary, or daijy :cgiller of the hap's courfe, winds, and weather; togeticr with a general account of whatever is material to be remarked in the period of a fea-voyage.

In all fea-journals, the day, or wlat is called the 24 hours, terminate at noon, becaufe the errors of the dead-reckoning are at that periox generally correcked by a lolar obfercation. Tlie daily compact ufually contains the flate of the weather ; the variation, increafe, or diminution of the wind; and the fuisable thifting, reducing, or enlarging the quantity. of fail extended ; as alfo the mont material incidents of the royage, and the condition of the fhip and her crew; together with the dicovery of othe: llips or fleets, land, thoals, breakers, foundings, \&c.

Journal, is alfo a name common for weekly effoys, newfpapers, \&c. as the Gray's Inı dournal, the Wellmiafter Journal, \&c.

Journil, is alfo uled for the titles of feveral books which come out at fated times, and give aboltracts, accounts, \&c. of the new books that are publithed, and the new improvements daily made in arts and ficiences; as the Gournal de Scavann, Yourmal de Phu/zue, \&cc.

JOURNEY, a tract of ground pafled over in travelling by land; properly as much as may be pafled over in one day.

Management of a Horfe on a journar. See Horsz:.
JOURNEYMiAN, properly une who works by the day only; but the word is now ufed for any one who works under a mafter, either by the day, the year, or the piece.

JOY, in Ethics, is that paffion which is produced by love, regarding its object as prefent, either immediately or in profpect, in reality or imagimation. This paffion has been found to increafe the perspiration and urine of human bodies.

JOYNERY. See Jonnery.
IPECACUANHA, the root of a plant which is well known by its ufe as an emetic. See Matimia Medica Index.

IPHICRATES, general of the Athomians, had that command conferred upon him at 20 years of arse, and became famous for the exactnels of his railitary difcipline. He made war on the Thracians; rellored Seuthes, who was an ally of the Athenians; attacked the Lacedemonians; and, on many other occafions, gave fignal proofs of his conduct and conrage. Many ingenious repartees have been mentioned of this general: a man of good family with no other merit than his nobility, reproaching him one day for the meannefs of his birth, he replied, "I thall be the firft of my race, and thou the latl of thine." He died $380 \mathrm{~B} . \mathrm{C}$.

IPHIGENIA, a daughter of Agamemnon and Clytemneftra. When the Greeks going to the Trojan war were detained by contraty winds at Aulis, they were informed by one of the loothfayers, that to appeale the gods they muft farrifice Iphigenia Agamemnon's daughter to Diana. 'The father, whu had provokel the goddels by killing her favourite Itag, lseard this with the greateft horror and indignation; and rather than to thed the blood of his daughter, he commanded one of his heralds, as chief of the Grecian forces, to order all the affembly to depart each to his relpective home. Ulyfies and the other generals iaterfered, and Ag.ancmison

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Ypomea, Agamemmon confented to immolate his daughter for Ipiwich. the common caufe of Greece. As Iphigenia was ten- derly loved by her mother, the Greeks fent for her on pretence of giving her in marriage to Achilles. Clytemnetra gladly permitted her departure, and Iphigenia came to Aulis. Here fhe faw the bloody preparations for the facrifice. She implored the forgivenefs and protection of her father; but tears and entreasies were unavailing. Calchas took the knife in his hand; and as he was going to ftrike the fatal blow, Iphigenia fuddenly difappeared, and a goat of uncommon fize and beauty was found in her place for the facrifice. 'This fupernatural change animated the Greeks, the wind fuddenly became favourable, and the combined Heet fet fail from Aulis.

IPOMEA, Quamoclit, or scarlet convolvuzus; a genus of plants, belonging to the pentandria clafs, and in the natural method ranking under the 29th crder, Campanacer. See Botany Index.

IPSWIC $F$, the capital of the county of Suffolk, in England, feated in E. Long. 1. 6. N. Lat. 52. 12. The name comes from the Saxon Cypefwick, that is, a town fituated upon the Gyppen, now called Orwell. It had once 21 churches, but now has only 12 . It was plundered by the Danes in 991, and afterwards befieged by King Stephen. It had charters and a mint in the reign of King John, but its laft charter was from Charles II. The remains of a wall and fix or feven religious houfes are fill to be feen. Though it is not iis fo Hourilling a ftate as formerly when the harbour was more commodious, yet it is ftill a large well built town. Befides the churches already mentioned, it has feveral meeting-houfes, two chapels, a town-hall, council-chamber, a large market place with a crofs in the middle of it, a fhise-hall for the county feffions, a library, feveral hofpitals, a frce-fchool, a handfome ftone-bridge over the river, Atately fhambles in the market-place built by Cardinal Wolfey, who was a native of the town and a butcher's fon, and who alfo began to build a college here on the ruins of a fmall college of black canons, which ftill bears his name, though it was never finifhed. Here are allo feveral alms-houfes, three charity-fchools, and a convemient key and cuftomhoufe. By virtue of Charles II.'s charter, the town is governed by two bailiffs, a recorder, 12 portmen, of whom the bailifis are two, a townclerk, two coroners, and 24 common-council. The bailiffs and 4 of the portmen are juftices of the peace. The town enjoys a great many privileges, as palling fines and recoveries, trying criminals, and even crown and capital caufes among themfelves, fettling the afdize of bread, wine, and beer. No freeman is obliged to ferve on juries out of the town, or bear any office for the king, except that of the fheriff, or to pay tolls or duties in any other part of the kingdon. They have an admiralty jurifdiction beyond Harwich on the Effex coaft, and on both fides the Suffolk coaft, by which thev are entitled to all goods cait on thore. The bailiffs even hold an admiralty-court beyond Landguard-fort. By a trial in King Edward III.'s time, it appears that the town had a right to the cu-flom-duties for all goods coming into Harwich-baven. They claim a right alfo to all waifes and flrays, \&c. The manufactures of the town are chiety wool'en and linen cloth. It has fill a confiderable foreign trade.

The tide rifes pretty high, and brings great thips Irafiit within a fmall diftance of the town. They export a Iretar great deal of corn to London, and fometimes to Hol. land. Formerly, they had a great trade in thipbuilding; but that having declined, they now fead great quantities of timber to the king's yard at Chatham. It has feveral great fairs for cattle, cheefe, and butter; and is admirably fituated for the trade to Greenland, becaufe the fame wind that carries them out ot the river will carry them to Greenland. It is worth remarling, that it is one of the beft places in Ergland for perfons in narrow circumfances, houferent "beisg eafy, provitions cheap and plentiful, the pallage by land or water to London, \&c. convenient, and the company of the place good. It gives title of vifcount, as well as Thetford, to the duke of Graften; and lends two members to parliament.

IRASCIBLE, in the old philofophy, a term applied to an appetite or a part of the foul, where anger and the other paflions, which animate us againft things dificult or odious, were fuppofed to refide.

Of the eleven kinds of paffions attributed to the foul, philofophers afcribe five to the irafcible appetite; viz. wrath, boldnefs, fear, hope, and defpair; the other fix are charged on the concupifcible appetite, viz. pleafure, pain, defire, averlion, love, and hasred.

Plato divided the foul into three parts; the reafonable, irafcible, and concupifcible parts. The two latt, according to that philofopher, are the corporeal and mortal parts of the foul, which give rife to our paffions.

Plato fixes the feat of the irafcible appetite in the heart; and of the concupifible in the liver; as the two fources of blood and fpirits, which alone affect the mind.

IRELAND, one of the Britannic illands, fituated between the $5^{\text {th }}$ and 10 th degrees of welt loingitude, and between the 5 ift and 56 th of north latitude, extending in length about 300 miles, and about 150 in breadth.

The ancient hiftory of this ifland is involved in fo much obfcurity, that it has been the object of contention among the antiquarians for upwards of a century and an half. The Inith hitorians pretend to very great antiquity. According to them, the illaud was firft inhabited ahout 322 yoars after the flood. At that time Partholanus the fon of Scara landed in Mun-the Irif ller on the 1 th of May with 1000 foldiers, and fome acco:du women, from Greece. This voyage he had underta- to their ken on account of his having hilled his father and mo- rians. ther in his native country. 'The fame liflorians inform us, that a great number of lakes bruke out in Ireland during the reign of Partholanus, which had no exiltence when he came into the illand, with many other particulars not worth mentioning ; but the moft fur rifing circumitance is, that about 300 years atter the arrival of this Grecian colony, all of them perifhcd by a plague, not a fingle perfon remaining to tell the fate of the reft; in which cafe, it is wonderful how the catafrophe fhould have been known.

After the extinction of this firlt colony, Ireland re mained a perfect wildernefs for $3 \supset$ years; when another coluny arrived from the eaft, under the direction of one Nemedius. He fet fail from the Euxine fea with 30 tranforts, each manned with 40 heroes; and

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elard. at lath arrived on the coalts of Ireland, after a very tedious and firange navigation. During his reinn alfo many lahiss were fomed in the country, which lad no exiftence before; the molt material circumftance, however, was an unfuccefsful war in which he was engaged with fome Atrican pirates, who in the end enllaved his peop!e. The victurs proved fuch infupportable tyrants, that the Iriih found themfelves under a neceffity of quitting the illand altogether. They embarked on board a fleet of 1130 thips, under the command of three grandlons of Nemedius, viz. Simon Breac, To Chath, and Briatain Maol. The firft returned to Greece, the fecond failed to the northern parts of Europe, and the third landed in the north of Scotland, and from him the illand of Britain is faid to have taken its name, and the Wella their origin.

About 216 years after the death of Nemedius, the defcendants of "Sircon Breac returned from Greece into lreland. They were conducled by five princes of great reputation, sho divided the illand into five kingdoms, nearly equal in dize. Ihele kingdoms were called Murfier, Leinfier, Connaught, Mcark, and Ul/her; and the fubjects of thefe kings are called hy the Irilh hiftoria:s Firbo!gs.

The Firbolgs were in procefs of time expelled or toially fubdued, after the lofs of 100,000 men in one battle, by the Tuath de Dannans, a nation of necromancers, who came from Attica, Bceotia, and Achaia, into Denmaik, from Denmark to Scotlald, and from Scotland to Ireland. Thefe necromencers were fo completely fhilled in their ant, that they cou!d even refore the dead to life, and bring again into the field thofe warrions who had been llain the day tefore. They had alfo fome curiofities which poffeffed a wonderful virtue. 'Thefe were a froord, a fpear, a cauldron, and a marble chair; on which latt were crouned firft the kings of Ireland, and afterwards thofe of Scutland. But reither the powerful sirtues of thefe Danilh curiolities, ror the more powerful $\int_{\mathrm{F}} \mathrm{ell}$ s of the magic art, were able to prelerve the Tuath de Dannans from being futcued by the Gadelians when they invaled Ireland.

The Gadelians were defcended from one Giutlielus, from whom they derived their name. He was a man of great confequence in Egypt, and intimately acquainted with Mofes the Jewith legillator. His mother was Scota, the daughter of Pharaoh, by Niul the fon of a Scythian monarch cotemporary with Nimrod. The Gadelians, called alfo Scots, from Scota abovementioned, conquered Ireland about $1300 \mathrm{~B} . \mathrm{C}$. under Heber and Heremon, two fons of Milefius king of Spain, from whom were defcended all the kings of Ireland dorn to the Englifh conquelt, and who are therefore dylded by the Irilh hifarians, princes of the Milefian race.

From this period the Irilit biftorians trace a gradual sefinement of tlieir countrynen from a flate of the groffeft barbarity, until a monarch, named Ollam ForlFa, efiablitied a regular torm of government, erected a grand feminary of learninge, and inftituted the Fes, or triennial convention of provincial kings, pricils, and pocts, at Feamor or larah in Meath, for the eflablilhment of lass and regulation of government. But whatever were the inflitutions of this monarch, it is acknoviledged that they proved infufficient to with-

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ftand the wildnefs and diforder of the times. To Kim- Irelar'. bath, one of his fucceffors, the annalits give the honour of reviving them, befides that of regulating Ul. fler, his family-province, and adorning it with a tlately palace at Eamannia near Armagt. His immediate fuccellor, called Hugony, is ftill more celebrated for adsancing the work of reformation. It fcems, that, from the earlieft origin of the lrill nation, the illand had been divided into the five provincial lingdoms abovementioned, and four of thefe had beeri luhject to the fifth, who was rominal monarch of the whole iland. Thefe four, however, proved fuch obilinate difurbers of the peace, that Hugony, to break tlieir power, parcelled out the country iato 25 dynafties, binding them by oath to accept no other inonarch but one of his own family. This precaution proved ineffectual. Hugony himfelf died a violent death, and all his fucceffors for a feries of ages were affafinated, fcarcely with one exception.

About 100 B. C. the pentarchal government was reftored, and is faid to have been fucceeded by a confiderable revolution in politics. The Irith bards had for many ages difpenfed the laws, and the whole nation fubmitted to their decifions; but as their laws were exceedingly oblcure, and could be interpreted only by themfelves, they took occafion from thence to opprefs the people, until at laft they were in danger of being totally exterminated by a general in!urrection. In this emergency they Hed to Convocar-ilac-Nent, the reigning monarc!, who promifed them his protection in cale they seformed; but at the fame time, in order to quiet the juft complaints of his people, he employed the molt eminent among them to compile an intelligible, equitable, and diltinct, body of laws, which were received with the greatell joy, and dignified wit! the name of celffial decifons. Thefe decifions feem to have produced but very little reformation among the people in general. We are now prefented with a new feries of barbarities, murders, factions, and anarchy; and in this difordered lituation of atifairs it was, according to the Irih hiltorians, that the chieftain mentioned by Tacitus addrefted himielf to Agricola, and encouraged him to make a delicent on Ireland. This fcheme happened not to fa't the view of the Roman general at that time, and therefore wa, not adopted; and fo confident are thefe hiltorians of the ftrength of thei country even in its then difracted fate, that they treat the notion of its being fubdued by a Roman Iegion and fome auxiliaries (the furce propofed to Agricola) as utterly extravagant; acquainting us at the fame time, that the Irith were f, far from dreading a Roman invafion, that they lailed to the aflifance of the llizs, and having made a fuccefsful incurfon into Soath Eritan, returncd home with a confiderable booty.
In the fame itate of baroarity and conft:fion the lingdom of Ireland continued till the introduction of Chrillianity by St Patric!, about the middle of the fifth century. This millionary, accordines to the adverfaries of the Irith antiquity, firlt introduced letters into Ireland, and tha- laid the foundmions of a future civilization. On the other hand. the advocates for that antiquity main+ain, tha: the drif! had the knowledge of letters, and bed made cerbiad fiate prosels in the arts, before the time of $S: f$ atcict theug! they allow,

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1-6iard that f.e i.tioduced the Roman character, in which lis copies of the Scripture and liturgies were written. fo ester into the dilpute would be contrary to our plan. It is futlicient to oblerve, that, excepting by fome of thse Irill themfelves, the biftory already given is generally reckoned entirely fabulous, and thought to have been invented after the introduction of Chritisanity. An origin of the Irith nation has been found out much nearer than Alia, Greece, or Egypt; namely, the illand of Britain, from whence it is now thought that Lreland was firit peopled. A difpute hath arifen concerning the place from whence the firl emiirrants from Britain fet fail for Iteland. The honour of being the mother-country of the Irih hath been difputed between the Nurth and South Britons. Mr Macpherfon lias argued Atrenuoufly for the former, and Mr Whitaker for the latter. For an account of their difpute, however, we mult refer to the works of thefe gentlemen. Mr Whitaker claims the victory, and challenges to himfelf the honour of being the firlt who clearly and truly demonftrated the origin of the Irifh.

The name of Ireland, according to Mr Whitaker,

Early hiAtory of Ireland by Mi Wh:t. akcr. is obvioully derived from the word $\neq 7 a r$ or Eir, which in the Celtic language fignifies "weft." This word was fometimes pronounced Iver, and Hiver; whence the names of Iris, Ierna, Ǧaverna, Fierna, Hibernia, and Ireland; by all of which it hath at fome time or other been known.

About $350 \mathrm{~B} . \mathrm{C}$. according to the fame author, the Eelga croffed the channel, invaded Britain, and feized the whole extended line of the fouthern coalt, from Kent to Devonthire. Numbers of the former inhabitants, who had gradually retired before the enemy, were obliged at laft to take chipping on the weftern coaft of England, and paffed over into the uninhabited ifle of Ireland. Thefe were afterwards joined by another body of Britons driven out by the Belgæ under Divitiacus, about 100 B. C. For tro centuries and a half afterwards, thefe colonics were continually reinforced with frell fwarms from Britain; as the populoufnefs of this illand, and the vicinity of that, invited them to fettle in the one. or the bloody and fucceffive wars in Britain during this period naturally induced them to selinquif the other: and the whole circuit of Ireland appears to have been completely peopled about 150 years after Chrift : and as the inlabitants had all fled equally from the dominion of the Belgæ, or for fome cther caufe left their native country, they were diftinguifhed among the Britons by one general and very appofite name, viz. that of Scuites or Scots, "the wanderers, or refugees."

Mr Whitaker alfo infurms us, "that in the times one upon the northern and three on the fouthern thore, feven upon the weftern, fix on the eaftern, and one in the centre.
"Along the eafern coaft, and the Vergivian or inter- nal ocean, were ranged the Damnii, the Yoluntii, and the Eblani, the Caucii, the Menapii, and the Coriondii. The firlt inhabited a part of the two counties of Antrim and Down, extending from Fair hearl, the mont north-eafterly extremity of the iiland, to Ifannum Promontoriam, or the point of Ardglais haven, in the county of DJwn; and, having the Logia or Lagan,
which falls into Carrickfergus bay, within their poffelifuns, and Dunum or Down-patrick for their capital. The Voluntii poffelled the coaft from the point of that haven to the river Buvinda or Boyne, the remainder of Down, the breadth of Armagh, and a!l Louth; having the Vinderus or Calling ford river in their dominions, and the town of Laberus near the river Deva (Atherdee in the county of Louth) fur their metropolis. And the Eblani reached from the Boyne to the Lebius, Lev-ui, or Lify ; refiding in Ealt Meath, and in the large portion of Dublin county which is to the north of this river; and acknowledging Mediolanum, Eblana, or Dublin, for their principal town. The Caucii fpread from the Lifify to the Letrim, the Oboca of the ancients; had the refl of Dublin county, and fuch parts of Wicklow as lie in the north of the latter; and owned Dunum or Rath-Downe for their clrief city. The Menapii occupied the coaft betwist the Letrim and Cancame-point, all the relt of Wicklow, and all Wexford to the point; their chief tom, Me. napia, being placed upon and to the eaft of Modona, Slanus, or Slane. And the Coriondii inhapited at the back of the Caucii and Menapii, to the weft of the Slane and Liffy, and in all Kildare and all Catherlogh; being linited by the Boyne and Barrow on the weft, tlie Eblani on the north, and the Brigantes on the fouth.
" Upon the fouthern fhore and along the verge of the Cantabrian ocean, lay the Brigantes, tbe Vodire, and the Ibernii. The firlt owned the rett of Wextord and all Waterford : extending to the Blackwater, AvenMore, or Dabrona, on the fouth-weft ; having the great mouth of the Berrow with their territories, and Brigantia, Waterford, or fome town near 1t, for their firlt city; and giving name of Brigas to the Suir or Swire, their limitary fream on the north, and the appellation of Bergie to their own part of the county of Wextord. The Vodise puffelled the thire of Corke from the Blackwater to the Ban, the river of Kinfale, and the Dobona or Dubana of the ancients; and affixed the name of Vodium Promontorium to the point of Balycotton illand. And the Ibernii inhabited the remainder of Corke, and all that part of Kerry which lies to the fouth-eaft of Dingle found; having Rufina or Ibrune for their capital, the Promontorium Auftinum or Mif-fen-Head about the middle of their dominions, and the river Ibernus or Dingle found for their northern barrier ; and leaving their names to the three divifions of Ibaune, Beare, and Iveragh.
"Upon the weftern flore of the ifland, and along the Great Britannic or Atlantic ocean, were the Lucanii or Lucenii, the Velaborii, and the Cangani, the Auterii, the Nagnatæ, the Hardinii, and Venienii. The Lucenii inbabited the peninfula of land that lies along the river Ibernus or Dingle found, and perhaps fome adjoining parts of Kerry. The Velaborii ranged along the limall remainder of the latter, and over the whole of Limerick to the Semus or Shamon; having the Durius or Calheen flowing through their dominions, and Regia, Limerick or fome town near it, for their metropolis. And the latter was probably that city near Limerick, the fite of which is fill famous, and retains the appellation of Cashair, or the fortrefs; and where the remains of lireets, and other marks of a town, may yet le traced. The Cangani lived in the county of

Clate :

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eland. Clare: Macolicum near the Shamon, perthaps Feakle or Melic, being their principal town; a leadland in the bay of Galway, near Glaniny, being denominated Benifamnum Promontorium; and the adjoining inles of Arran called Infuke Cangance. The Auterii were fettled in the county of Galway; winding along the deep recefs of the Sinus Aufoba or bay of Galway; Atretching towards the north as far as the Libnius, or the river that bounds the fhire in that part; and poffefling the fmall portion of Mavo which lies to the fouth of it. And thefe were fubject to Auterium, anciently Aterith, and now Athenree; and have left their name to the divition of Athenree. The Nagnatæ occupied the reft of the large county of Mayo, all Sligo and ali Rofcommon, all Letrim as far as Logh Allin on the fouth. ealt, and all Fermanagh, to Balyfhannon and Logh Erne; being bounded by the Rhebius or river of Balythannon, and the lake Rhebius or Logh Erne; having a deep bay, called Mastius Sinus, that curves along Mayo, Sligo, and Letrim counties; and acknowledging Nagnat, Necmalıt, or Alnecmaht, the town of the Nagnatæ, for their capital. And the Hardinii and Venicnii were confederated together under the title of the Venicnian Nations, extended from Balythannon to the North-Cape, and poffeffed all Donnegalle, except the two whole divifions of Raphoe and Enis-Owen, and the eaftern part of Killmacrenen. The Venicnii lay along the immediate margin of the fhore, giving name to the Promontorium Venicnium or Cape Horn, and to the Infula Venicnia or North Arran illand. And their metropolis Rheba was feated upon the lake Rhebius, and in the country of the Hardinii on the fouth-ealt.
"Upon the northern thore and along the margin of the Dencaledonian ocean, were only the Robogdii; inhabiting the relt of Donnegalle, all Derry, and all Antrim to the Fair-Head, and the Damnii; and giving their own name to the former and the divifion of Paphoe. And they had the rivers Vidua or Shipharbour, Arigta or Logh Swilly, Darabouna or Logh Foile, and Banna, or Ban, in their territories; and acknowledged Robogdium, Robogh, or Raphoe, for their chief city.
" The central regions of the ifland, all Tyrone, the remainder of Fermanagh and Letrim, all Monaghan, and the reft of Ardmagh; all Cavan, all L. ngford, and all Weft-Meath; all the King's and Quee'r's county, all Kilkenny, and all Tipperary; were planted by the Scoti. The Shanon, Logh Allin, and Logh Erme, were their great boundaries on the weft; the Barrow, Boyne, and Logh Neagh, on the ealt; the Swire and Blackwater on the fouth; and a chain of mountains on the north. And the two greateft of their towns were Rheba, a city feated, like the Rheba of the Venionians, upon the lake and river Rhebiuc, but on a different part of them, and fomewhere in the north of Cavan; and Ibernia, a town placed a little to the eaft of the Shannon, and fomewhere in the county of 'Tinperary."

But whether we are to reccive as truth the accounts given by Mr Whitaker, thofe of the Irifı amalifts, o: any othos, it is certain, that, till little more than a century ago, Ireland was a fecne of confufion and flaughter. The Irin liforians acknonledge this, as we have already feen. Very few of their monarchs
efcaped a violcint death. The hillorics of their laings I chand. indeed amount to wo more than this, riz. that they began to reign in fuch a year, reigned a ceriain sum. ber of years, atid were ham in battle by the valiant prince who funcecded to the thronc. Iliee introduction of Chrifianity feems to have mended the matter very little, or rather not at all. The fame wirs between the chicfs continued; and the fame murders and treacheries took place among the inbabitants, till they 4 were invaded by the Danes or Normans, about the Invafon of end of the eighth century. At this time, we are told, the Dants. that the monarchical power was weak, by reafon of the factious and affuming difpofition of the inferior dynafties; but that the evils of the political confitution had confiderably fubfided by the refpect paid to religion and learning. The firf invations of the Danes were made in fmall parties for the fake of plunder, and were repelled by the chieftain whofe dominions were invaded. Other parties appeared in different parts of the illand, and terrified the inhabitants by the havock they committed. Thefe were in like manner put to flight, but never failed to return in a flort time; and in this manner was lreland haraffed for the fpace of 20 years, before the inhabitants thought of putting an end to their inteftine contefts, and uniting againft the common enemy. Whe northern pirates, eitlier by force or treaty, gradually obtained fome fmall fettlements on the ifland; till at length Turges, or 'lurgefius, a warlike Norwegian, landed with a powerful armament in the year 815 . He divided his fleet and army, in order to flrike terror in different quarters. His followers plundered, burned, and maffacred, without mercy, and perfecuted the clergy in a dreadful manner on account of their religion. The Danes already fettled in Ireland, flocked to the Aandard of Turgefius, who thus, was enabled to feat himfelf in Armagh, from which he expelled the clergy, and feized their lands. The Irilh, in the mean time, were infatuated by their private quarrels; till at laft, after fome ill-conducted and unfuccesfful efforts, they funk into a fate of abject fubmiflion, and 'Iurgefius was proclaimed monarch of the whole ifland in 845 .

The new king proved fuch a tyrant, that he foon became intolerable. A confpiracy was formed againft him; and he was feized by Melachline prince of Meath, in a time of apparent peace. An univerfal infurrection enfued; the Danes were maflacred or difperfed; their leader condemned to death for his cruelties, and drowned in a lake. The foreigners, however, were not exterminated, but the remains of thens were al. lowed to continue on the ifand as fubjects or tributaries to fome particular chieftains. A new colony foon arrived, but under pretence of peareable intentions, and a defign of enriching the country hy commerce. The Irish, through an infatuated policy, fuffered them to become mallers of Dublin, Limerick, Waterford, and other maritime places, which they cmlarged and fortified with fuch works as had till then bern unknown in Ireland. The Danes did not fail to make ufe of every opportunity of enlarging their territories, and new wars quickly enfucd. The Iriha were fometimes vicorious, and fometimes not; but were never able to drive out their enemies, fo that they continued to be a very diftinguinhed and powerful fept, or tribe, in Ireland. The wars with the Danes were no fooner. S § 2

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Treian:. at an end, than the natives, as ufuak, turned their arms againft each other. The country was haraffed by the competitions of the chiefs; laws and relizion lof their infuence, and the mof horrid licentioufnefs and immorality prevailed. Thus the whole illand feemed ready to become a prey to the firft invader, when an attempt was made upon it by Magnus king of Norway. This attempt mifcarried through his own rathnefs; for, having landed without oppofition, he advanced into the comsry without the lealt apprehenfon. The confequence of this was, that he was furrounded and cut to pieces with all his followers. His death. however, proved of little benefit to lrcland; the fame diforders which had gradually reduced the lingdom to a tate of extreme weaknefs, fill continued to operate, and to facilitate the fuccefs of the Engliit invafion, which happened in the reign of Henry II.

The firf motives which induced this monarch to

Henry II. of England med:ates an invafion of Iretant. think of an expedition againft Ireland are not well known. It was fuppofed that he had been provoked by fome affifance which the Irilh princes had given to the French; but, whatever might be in this, it is certain that the defign was conceived foon after he afcended the throne ; and his tlatterers fom furnifhed him with fufficient reafons for confidering the lrith as his fubjects. It was affirmed that they had originally poffelled themfelves of their couatry by permilfion of Gurguntius a Britifh king ; and that, as defcendants of the Britons, they were the natural and rightful fubjects of the Englilh monarch. It was alfo fuggefted, that the renowned King Arthur, Egfred the Northumbrian prince, and Edgar one of the Saxon kings of England, had all led their armies into lreland, and there made valuable acquifitions, which their fucceffor was in honour bound to recover and maintain. All thefe fuggellions, however, or whatever elfe had occurred to himfelf, fecmed yet infufticient to Henry ; and therefore he took the molt effectual method to infure his reputation, namely, by an application to the pope. To him he reprefented, that the inhabitants of Ireland were funk into the mof reretched fate of corruption, both with regard to morals and religion; that Henry, zealous for the honour and enlargement of God's kingdom, had conceived the pious delign of erecting it in this unbappy country; was ready to detote himfelf and all his powers to this meritorious fervice ; implored the benediction of the pontiff; and requefted his permilfion and authority to enter Ireland to reduce the difobedient and corrupt, to eradicate all fin and wickednefs, to inftruct the ignorant, and fpread the bleffed intuence of the gofpel in all its purity and perfection; promifing at the fame time to pay ${ }^{1}$ yearly tribute to St Peter from the land thus to be roduced to his obedience, and to the holy fee. Adrian, the reigning pope, rejoiced at this application which 6 tended fo much to the advancement of his own power.

Is invefted
with the fovereignty by the ;ope. A bull was therefore immediately formed, conformable to the moft fanguine winhes of Henry, which was fent to England without delay, together with a ring, the token of his invefliture as rightful fovereign of Ireland. But whatever inclination the king of England or the pope might at this time (A. D. 1156) have for the fubjection of Ireland, the fituation of the Englifh afiairs obliged him to defer it for fome time.

The flate of Ireland, as we have alrcady obferied, was at this time extremely favourable for an invafion. The monarch enjoyed little more than a titular dignity, being haraffed by a faction, and oppofed by powerful state of rivals. A number of chieftains who allumed the title that tim and ights of royalty, paid a precarions tribute to their luperior, and united, if they were difpofed to unite, with him, rather as his allies than his fubjeets. In Ulter, the family of the northern Hi-Nial, as it was called, exercifed a hereditary juriidiction over the counties now called Tyrone, Derry, and Donnegal. They alio claimed a right of fupremacy over the lords of Fermanagh, Antrim, and Argial, which included the counties of Armagh, Monaghan, Lowth, and fome adjacent diltricts; while Dunleve, prince of Uladh (now Jown), difputed the fuperiority of this family, and affected an independent fate. In Munfter reigned the defcendants of Brien, a famous fovereign of former times, impatient to recover the honouirs of their family; but at laft, being confined by powerful rivals to the territory of North Munfter, they were obliged to leave the family of Mac Arthy fovereigns of Defmond, the fouthern divifion. In Connaught, the princes known by the name of OConnor were acknowledged fovereigns of the eaftern territory. Tiernan O'Ruarc, an active and refflefs military chief, had the fupremacy in Breffney, containing the modern county of Leitrim, and fome adjacent diftricts. Meath, or the fouthern $\mathrm{H}-\mathrm{Vial}$, was fubject to the family of Clan-Colman, Murchard O'Malachlyn, and his fuccefiors. Lecinfter, divided into feveral principalities, was fubject to Dermod, a fierce, haughty, and oppreflive tyrant. His father had governed with great cruelty. Seventeen of his vaffal lords had been either put to death, or had their eyes put out, by his order in one year ; and Dermod feemed to inherit too great a portion of the fame temper. His fature and bodily Arength made him admired by the inferior orders of his fubjects; and thele he was careful to protect and favour. His donations and endowments of religious houfes recommended him to the clergy; but his tributary chieftans felt the weight of his pride and tyranny, and to them his government was extremely odious.

The chief competitors for the rank of monarch of Ireland, in the mean time, were, the heirs of the two houfes of $\mathrm{O}^{\prime} \mathrm{Commor}$, and the northern Hi-Nial. Torlogh O'Connor was in poffeffion ; but he was not generally recognifed, and was oppofed by his rival O'Lochlan : notwithffanding which, he maintained his dignity with magnificence and vigour, till a decinive victory gained by hin over O'Brien raifed O'Lochlan's jealoufy fo much, that he obliged him in a convention of the flates to allow him the fovereignty of the northern divifion. In confequence of this partition, it was refolved to transfer the territory of O'Ruarc to a perfon more inclined to the interefts of the two fovereigns. An expedition was accordingly undertaken; O'Ruarc was furprifed, defeated, and driven from his dominions. Dermod, who had conceived an unlawful paftion for Dervorghal, the wife of O'Ruarc, took the opportunity of her hufband's diftrefies to carry her off in triumph. O'Ruarc conceived the moft implacable refentment againft Dermod; and therefore applying himfelf to Torlogh, promifed an inviolable attachment to his fntereft ; and prevailed on him not only to reinflate

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reland. him in his poffections, but to revenge the infult offered
$\sim$ by Dermod, and to reftore his wife. By means of fuch a powerful ally, O'Ruarc found frequent opporunities of harafing his antagonit till the death of Torlogh, which happened in 1156 , upon which O'Luchlan fucceeded to the fovereignty. Dermod was the firf to acknowledge the authority of this new fovereign, by whofe means he hoped to be able to revenge himfelf on ORuarc. He foon found, however, that he had aged too precipitately. His patron, having treacheroufly feized and put out the eyes of D:mlenve prince of Down, the neighbouring clieftains took arms, in order to fecure themfelves from his barbarity. O'Lochlan was defeated and killed; upon which the monarcly devolved on Roderic the fon of the late Torlogh O'Connor.

The new prince had acquired the reputation of valour, and was determined to eftablith this reputation hy fome remarkable exploit in the beginning of his reign. Having therefore engaged in his fervice the Oftmen, or defcendants of the Dancs, he marched againft Dermod as the chief partizan of his fallen rival. The king of Leintler was feized with the utmof confternation; and in defpair fet fire to his own town of Ferns, left the enemy fhould have the fatisfation of [poiling it. Roderic fill advanced, attended by O'Ru-
arc, Dirmod's implacable enemy, and foon overran the whole province. All the inferior lords at once acknowledged Roderic's authority. Dermod was depofed, as a man utterly unworthy of his ftation; another of his family was raifed to the throne; and the unfortunate prince, fincing it impolfible to flay with fafety in Ireland, embarked with 60 of his followers for England, and foan arrived at the port of Briftol, with a defign to folicit aflitance from King Henry.

In England, Dermod's charater was unknown, and he was regarded as an injared prince driven from his throne by an iniquitous confoderacy. The clergy received him as the bene ${ }^{\text {actor }}$ of their order, and entertained him in the monaltery of Augullines with great hofpitality. Having learned that Henry was then in Aquitain, he immediately went thither, and in a very abject manner implored his affiftance, promifing to acknowledge him as his liege lord, and to hold his domintions, which he was thus confident of regaining, in vaffalage to Henry and his heirs.

Though nothing could be more flattering to the ambition of the king of England than this fervile addrefs, yet the fituation of his orn affairs rendered it impoffible for him at that time to reap from it any of the advantages with which it flattered him. He therefore difmiffed the Irifh prince with large prefents, and a letter of credence addreffed to all his fubjects : notifying his grace and protection granted to the king of Leintter; and declaring, that whofoever within his dominions thouid be difpofed to aid the unfortunate prince in the recovery of his kingdom, might be affured of his free licence and royal favour.

Dermod returned to England highly pleafed with the reception he had met with; but notwithtanding the King's letter, none of the Englift feemed to be difpofed to try their fortunes in Ireland. A month clapfed without any profpeEt of fuccours, fo that Dermod began to defpair. At laft, however, he perfuaded, with great promifer, Richard earl of Chepfow, or,
as it was formerly called, Serigul, a nobieman oi c...a- in 'u. derable influence in Wales, but of broken fortai., 'to anift him with a confiderable force to be tranffutced Pcruades next Spring into $^{\text {leland. Overjoyed at this frift inflance om: ad- }}$ of fuccefs, he advanced into Scuth Wales, where, liy veneusers the influence of the billop of St David's, he procuredt follow many other friends. Robert Fitz Stephen, a brave hi to Ireand experienced officer, covenanted with him to cugage in his fervice with all his followers, and Maurice Fitz-Gerald his maternal brother; while Dermod, on his part, promifed to cede to the two principal leaders, Fizz-Stephen and Fitz-Gerald, the cuntire dominion of the torm of Wexford, with a large adjoining territory, as foon as by their affiltance he hould be reintated in his rights.

The lrifl prince having now accomplifhed his purpofe, fet fail for Ireland in the winter of 1169 , and recovered a fmall part of his dominions even before the arrival of his new allies; but being attacked with a fuperior force by lis old.enemies Roderic and O'Ruarc, he found himfelf obliged to feign fubmirfion till the Englifh allies came to his affiftance. The expected fuccons arrived in the month of Nay 1375 , in a creek called the Bann, near the city of Weaford. Robert Fitz-Stephen commanded 30 knights, 60 men in armour, and 300 archers. Witls thefe came Harvey of Mountmorris, nephew to Earl Richard. He had no military force along with him ; but cane folely. with a view of difcovering the nature of the country, and reporting it to his uncle. Maurice of Pendergatt commanded 10 knights and 200 archers: and thus the Englifh force, which was to contend with the whole ftrength of Ireland, amounted to no more than 600 men.

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Triting as this affiftance may feem, it neverthelefs Their furchanged the face of affairs almoft inftantaneoufly. cefs. Numbers of Dermod's fubjects who had abandoned him in his diffrefs, now flocked to his flandard. Wexford was immediately attacked, and furrendered in a few days; Fitz-Stephen and Fitz-Gerald were jointly invelted with the lordllip of this city and its domain; and Harvey of Mountmorris was declared lord of two confderable dillricts on the coaft. After three or four weeks fpent in fealting and rejoicing, a new expedition was undertaken againft the prince of Ofory (a diftritt of Leinfter), who had not only revalted from Dermod, but put out the eyes of one of his fons, and that with fuch cruelty, that the unhappy youth expired under the operation. The allied arrny was now increafed to 3002 men, who were oppofed by the prince of Offory at the head of 5000 , Arongly entrenched among woods and moraffes. By the fuperior conduct of the Englifl troops, however, the Itifh were decoyed from their advantageous fituation, and thus were entirely defeated. The Englifh were for keeping the field till they had totally reduced their enemics: but Dermod, accuftomed only to ravage and plunder, contented hinfelf with deffroying the country; and a fudden reverfe of fortune feemed ready to take place. The prince of O.Tory, though defeated, Atill appeared in arms, and only waited for an opportunity of again oppafing the enemy in the field. Maurice Pendergatt allo joined him with his whole troop, being provoked by Dermod, who had refufed him leave to return to Wales. This defecion, hovicyer, was in pratt fupplied by the arrival

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Treiand. arrival of Fitz-Gerald with 10 knights, 30 horfemev, and 100 archers. Pendergatt in a hort time repented of his new alliance, and retired into Wales; to that the prince was obliged to make his fubmilfion to Dumod, which the latter with fome reluctance accepted.

In the mean time, Roderic, having fettled all his other affairs, advanced againft the allies with a powerful army. Dermod was thrown into defpair; Lut encouraged by Fitz-Stephen, he encamped in a very Arong fituation, where he was foon befieged by Roderic. The latter, however, dreading the valour of the Engliih, condefcended to treat firt with them, and then with Dermod, in order to detach them from the interefts of each other: but as this proceeded evidently from fear, his offers were rejected by both parties; upon which he began to prepare for battle: but at thee very time when the engagement thould have commenced, either through the fuggeftions of his clergy, or of his own fears, Roderic entered into a new negociation; which at laft terminated in a peace. The terms were, that Dermod fhould acknowledge the fupremacy of Roderic, and pay him fuch fervice as the monarchs of Ireland had ufually received from inferior princes; and as a fecurity for his faithful performance of this article, he delivered up his favourite fon as an hoftage to Roderic : but in order to eftablith this accommodation on the firmeft bafis, the latter obliged himfelf to give his daughter in marriage to the young prince as Yoon as Leinfter fhould be reduced, and the peace of the illand effectually reflored. By a fecret article, Dermod engaged to difmifs the Britih forces immediately after the fettlement of his own province, and in the mean time not to bring over any further reinforcements from England.

Thus ended the firf Britith expedition into Ireland; the confequences of which were fo little dreaded at that time by the natives, that their hiftorians, though they dwell upon the principal wars and contells in other parts of the illand, fpeak of the fettlement of the Welihmen in Leinfter with a carelefs indifference. But though the fettlement of this colony feemed very little alarming to the generality, it could not efcape the obfervation of difcerning perlons, that a man of Dermod's character would not long keep his treaties; and that on the firlt emergency he would have recourle to his former allies, who thus would cflablith themfelves more and more, till at laft they would reduce the country entirely under their fubjection. Thefe rellections, if any fuch were then made, were in a fhort time verified. Dernood was fcarce fettled in his own dominions, when he began to afpire at the fovereignty, and form fchemes for dethroning Roderic. He applied to FitzStephen and Fitz-Gerald; by whom te was again direited to apply to Richard earl of Cheptow, more commonly known by the name of Strongbure, on account of his feats of archery: Richard was very much inclined to accent of his invitation; but thourht it in. cumbent unon him firft to obtain the confent of King Henry. The king, however, did not incline that his fuhjects fhould make conquelts for the felves in any other country, and therefore difmified Richard with an equivocal anfiver; but the latter being willivg to widerland his fovereign's words in t'e mon favoura'le fenfe, immediately fet abou the uscellary preparations
for his expedition. In May 1 Ift, Raymond le Grofs, Richard's domeftic friend, and the near relation of Fitz-Stephen and Fitz-Gerald, landed at a place called A new Dondonalf, near Waterford, with ro knights and 70 dy of $E_{1}$ archers; and along with them came Harvey of Mount-line arr morris, attended by a fimall train. The Englifh imme-in Irela: diately intrenched themfelves, and creeted a temporary fort for themfelves : which proved a very neceffary precaution; for the natives, juttly attributing this new debarkation to the practices of Dermod, inftantly formed a tumultuous army, and marched to expel the invaders. The Englim prepared to meet them; but when they perceived the great fuperiority of the enemy, they thought proper to retire to their fort. Here, however, they muft have been totally cut off, had they not luckily collected a numerous herd of cattle from the neighbouring country for their fubfiftence. Thefe rheir fu they drove with fury among the Inith, who were thus efs nd put into the utmolt confufion. The invaders feized cruelty. the favourable moment; and, falling upon their difordered enemies, put them to Hight, and drove great numbers of them into the fea, where they perithed. Seventy prifoners were taken, all of them principal citizens of Waterford; who, though they offered large fums for their ranfom, and even that the city thould be delivered up to the Englifh, were all barbaroutly put to death. This fuccefs and cruelty fo intimidated the Iriff; that they luffered thefe mercilefs invaders to maintain their ftation unmolefted, and wait for the arrival of their affociates.

Richard in the mean time having afitmbled his vaffals, led them through Wales, where he was joined by great numbers of other adventurers; but, when jut' on the point of embarking, was furprifed by a politive command from the king, to defifi from his intended enterprife, on pain of forfeiture of his lands and honours. He was now, however, too much interefted in his fcheme to retract; and therefore pretended to dibelieve the authenticity of the royal mandate. On Earl Ric the eve of the feall of St Bartholomew, he landed at ard artiv Waterford with 200 knights and 1200 infantry, all w:ha chofen and sell appointed foldiers. They were im-powerful mediately joined by Raymond and his troop; and the very next day it was refolved to make an attempt upon Waterford. The city was taken by form, and a dreadful maffacre enfued; to which the cruel Dermod had the merit of putting an end. The marriage of Richard with Eva, the daughter of Dermod, was folemnized without delay, and a fcene of joy and feltivity fucceeded the calamities of war.

A new expedition was now undertaken againft Dublin; the inhabitants of which had either manifelted Come recent difaffection to Dermod, or had never been thoroughly forgiven for their old defection. Roderic advanced againft the allied army with a formidable body, conliting, as is laid, of 30,000 men; but, fearing to come to a general engagement, he contented himfelf with fome flight fkirmifhes; after which, great part of his vafials forced him to difmifs them, and Dublin was left to its fate. The inhabitents were treated very feverely; however, a coufideratle body of them, with Hefculph their governor, had the good fortune to gain fome veffels lying in the harbour. and made their efcape to the morthern iflands. Earl Richard was now invelted with the lord:sip of

Dublin ; and appointed Nilo de Cogan, a brave Englihh kright, his governor; while he himfelf, in conjunction with the forces of Dermod, overran the country of Meath, committing everywhere the molt horrid cruelties. Roderic, in the mean time, unable to oppole them in the fis!d, fent deputies to Dermod, commanding him to retire, and putting him in mind that his fon was in his hands, and mult anfwer with his life for the breach of thole treaties which his father made fo little fcruple to violute. Natural affection, however, had very little place in the breait of Dermod. He exprefied the utmolt indiference about his fon; and, with the greateft arrogance, claimed the fovereignty of all Ireland; Roderic, prosoked at this anfwer, cut off the young prince's head.

This piece of impotent cruelty fezved only to make the king odious to his own fubjects, while Dermod and his Englifh aliies committed everywhere the greatent devaltations, and threatened to fubdue the whole ifland. This indeed ihey would probably have accomplified, had not the extraordinary fuccefs of Strongbow alarmed Kias Henry; who, fearing that he might render himfelf totally independent oil the crown of Briaain, ifired his royal edict, ftrictly forbidding any Englith provilions; and commanding all his fubjects at that time refident in Ireland, of whatever rank or degree, to return to their country before the enfung fealt of Eaiter, on pain of forfeiting their lands, and being declared traitors.

Oır adventurers were plunged into the greatelt diftrefs by this peremptory edict. They now found themfelves cut off from a!l lupplies in the midat of their enraged enemies, and in danger of being forfaken by thofe who had attached themfelves to them during their fuccefs. Raymond was difpatched with a moft fubmiffive meffige to the offended monarch; but before he received any favourable anfwer, every thing was thoown into confulion by the death of Becket ${ }^{*}$, fo that the king had neither leifure nor inclination to attend to the afiairs of Ireland. About the lame time the death of De:mod their great ally feemed almon to give a finithing ftroke to the Erglih affairs. An univerfal defection took place among their aflociates; and before they had time to concert any proper meafures, Hefculph, who had formerly efcaped from Dublin, appeared before that city with a formidable body of troops armed after the Danifh manner. A furious attack enfued; which at laft ended in the defeat and captivity of Hefculph, who was immediately pat to death. This danger, however, was foon followed by c.ee fiil greater. Roderic had formed a powerful confederacy with many of the Irilh chieftains, and the kings of the northern ifles, in order to extirpate the Englifh totally from the ifland. The harbour of Dublin was blocked up by a fleet of 30 mips from the northern ifles; while the confederated Irifl took their ftations in fuch a manner as to furround the city, and totally cut off all fupplies of provitions. In two months time the Englifh were reduced to great Araits. On the firft alarm, Richard had fent for affifance to Fitz-Stephen; who having weakened his own force, in order to ferve the earl, the people of Wexford had rifen and befieged Fitz-Stephen in his fort called Carrig, rear that city. A mefenger now arrived, informing

Strongbow that his friend was in the utmoft danger, and muft fall into the hands of his cacmics if not antis. ed within three days; upon which a council of war was called, in order to deliberate on the mealures necefiary to be purfued in this defperate cnucrgency. Is was foon refolved to enter into a treaty with Roderic upon any terms that were not totally fervile or opprellive. Latrence prelate of Du'tin was appointed to carry the tern:s ; which were, that Richard propofed to acknowledge Roderic as his fovereign, and to hold the province of Leinfter as his raflal, provided he would raife the fiege. Lamence foon returned with an anfiver, probably of his own framing; namely, that Dublin, Waterford, Wexford, and all the forts polleffed by the Britif, noold be inmediately given up ; and that the earl and his affociates thould depart with all their forces by a certain day, leaving every part of the illand free from their ufurpations, and abfolutely renouncing all their pretended claims. On thefe conditions they were to be fpared; but the leaft reluctance or delay would determine the befiegers to florm the city.

Thele terms, though they contained nothing infolent or unreafonable, coniidering the prefent fituation of the Englih, were yet intolerable to our indigenz adventurers. After fome time fpent in filence, Milu de Cogan, fuddenly itaiting up, declared his refolution to die bravely rather than fucmit to the mercy of barbarians. The ipirit of defperate valour was inftantly caught by the whole affembly; and it was refo'ved to rifk their whole fortune on one defperaie effort, by fallying out againit the enemy, and to make their attack upon that quarter where Roderic himfelf commanded. Accordingly, having perfuaded a body They rotain of the townfmen to take part in this defperatc enter-ly deat prife, they marched out again!t their enemies, who their eneexpected nothing lefs than fuch a fudden atiack. The mies. befiegers were lecure and carelefs, without difcipline or oroder ; in confequence of which, they were unable to fuflain the furious affault of the Englith. A terrible flaughter enfued, and the Irih inftantly lled in the greateft confulion ; their monarch himfelf efcaping only by mising half naked with the crowd. The uther chieftains who were not attacked caught the panic, and broke up their camps with precipitation; while the victors returned from the purfuit to plunder, and among other advantages, gained as much provition as was futicient to fupport them for a whole year.

Strongbor being thus relieved from lis dittrefs, committed the government of Dublin to Milo de Cogan, while he proceeded immediately to Wexford, in order to relieve Fitz-Stephen : Lut in this lie was difappointed; for that brave officer, having often repulfed his enemies, was at laft treacherounly deceived into fubmiffion and laid in irons. Strongbow, however, continued to advance ; and was again attacked by the Irilh, whom he once more defeated. On his arrival at Wexford, he found it burnt to the ground; the enemy having retired with Fitz-Stephen and the relt of the priloners to Holy Ihand, a fmall ifland in the middle of the harbour, from whence they fent a deputation, threatening to put all the prifoners to death if the leall attempt was made to moleft them in their prefent fituation. The earl then proceeded to W'aterford, and from thence to Fcrns; where be for fome time cxercifed a regal authority, rewarding his friends and funifing his eremics.

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Liclanel.

10 Earl Richard fummoned to England.

A more impoisat object, ho:rever, foon engaged his attention. The king of England, having fettled his affiairs as well as he could, notr determined to conquer Ireland for himfelf. A fummons was infantly difpatched to Earl Richard, exprefing the greateft refentment at his prefumption and d!oledience, and requiring his immediate prefence in England. The earl found timielf under the necelfity of obeying; and laaving nade the bef difpoitions the time would permit for the fecurity of his Irih polfefions, embarked for England, and met the king at Newnham neat Gloucefter. Henry at firlt affected great difpleafure ; but foon allowed himfelf to be pacificd by a furrender of the city of Dublin, and a large territory adjacent, together with all the maritize towns and forts acquired by Strongbow: while on his part he confented that the carl fhould have all his other poffefions granted in perpetuity, to be held of the king and his heirs. The other adventurers made their peace in a fimilar manner; while the Irith chieftains, inflead of uniting in the defence of their country, only thought how to make the moll of the approaching invafion, or at lealt how to avert the threatened evils from their own particular dilfricts. They faw the power of their own fovereign on the point of total diffolution ; and they faw it with indifference, if not with an envious and malignant fatisfaction. Some were even ready to prevent their invader, and to fubmit before he appeared on the coall. The men of Wexford, who had pofferfed themfelves of Fitz-Stephen, refolved to avert the confequences of their late perfidy and cruelty, by the forrardnefs of their zeal for the fervice of the king of England, and the readinefs of their fubmifions. Their deputies caft themfelves at Henry's feet; and, with the moft paffionate expreffions of obedience, humbly intreated that he would accept them as his faithful valfals, ready to refigu themfelves, their lands, and pufreffions, to his ablolute difpofal. "They had already (they faid) endeavoured to approve their zeal by feizing Robert Fitz-Stephen, a traitor to his fovereign, who had lately entered their territory by force of arms, without any due warrant or fair pretence, had flaughtered their people, leized their lands, and attempted to eltablith himfelf independent of his liege lord.They kept him in chains, and were reads to deliver him to the difpofal of his fovereign." - The king received them with expreflions of the utmoft grace and favour; commended their zeal in repreffing the unwarrantable attempts of Fitz-Stephen; declared that he fhould foon inquire into his crimes, and the wrongs they had fuftained, and inflict condign punihment for every offence committed by his undutiful fubjects. Thus were the Irilhmen difmified in the utmort joy and exultation : and the artifice of Henry, while it infpired thefe men with difpofitions favourable to his interefls, proved alfo the mof effectual means of faving FizzStephen from their cruelty.

Henry, having completed the preparations neceflary for his expedit:on, cmbarked at ITiiord vith Ceveral
of his barons, ton knighes, and about 4000 Coldiers, on board a theet of $2+0$ fail. He landed at Waterford on the fealt of St Luke in Ofober 1172; with a profefled defign not to conquer, but to take pofieflion of a kingdom alrcaty his owio, as iowng granted lim by the pope. Molt of the liik indeed feemed to bc

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of the fame opinion, and therefore fubmitled without the leall refiftance. Strongbow fet them an example, by making a formal furrender of Whateriord, and doing homage to the king for the territory of Leinfter. Fitz-Stephen was delivered up, with nany accufations of tyranny and injultice. He was at firlt fer.t to frifor; but faen purchafed his liber:y, ty furrendering Wexford, and doing homage for the rell of his puilef fions to the ling. The prince of Defmond was the liany Ir firlt Irilh chieftain who fubmitied. On the very day chieila:r after thie king's arival, he attended his court, religned himut the city of Corise, did him homage, ard ftipulated to pay a tribute for the reft of his territory. An Englift governor and garrilon were immediately appointed to take poffeltion of his capital; and the king difplayed his power and magnificence by marching to Lifmore, where he chofe a fituation and gave the necefiary orders for building a fort. The prince of Thomond next fubmitted and did homage. He was followed by the princes of Oflory, Decies, and all the inferior chief's of Munfler.

The king, after having provided for the fecurity of all his newly acquired teritories, and put garrifons in the cities of Limerick, Corke, Waterford, and Werford, procceded to take pofleffion of Dublin, which had been lurrendered by Strongbow. The neighoouring lurds took the opportunity of fubiniting as he advanced. O'Carrol of Argial, a chieitain of great confequence, repaired to his camp, and engaged to become his tributary; and even $U^{\prime}$ Ruarc, whom Roderic had made lord of a confiderable part of Meath, voluntarily fubmitted to the new fovereign.
Roderic, though furprifed at the defeation of fo Roderie many of his allies, fill determined to maintain his orrn f:ll hald: dignity, and at leaft preferse his province of Con- out. naught, feeing he couid no longer call himfelf monarch of the whole illand. With this defign be entrenched himfelf on the banks of the Shannon; and now, when difencumbered from a crowd of faithlefs and difcontented followers, he appears to have acted with a firit and dignity becoming his fation. Hugh de Lacey and Willian Fitz-Andelm were commiltioned by the king to reduce him : but Roderic was too ftrong to be attacked with any probability of fuccefs cy a detachment from the Englifh army; and he at leat affected to believe, that his fituation was not yet fo totally defperate as to reduce him to the neceffity of refigning lisis dignity and authority, while his own territory iemained inviolate, and the brave and powerful chiefs of Ulfer Itill kept retired in their own diffricts without any thoughts of fubmifion. Henry in the mean time attempted to attach the Irifh lords to his insterell by elegant and magnificent entertainments, fuch as to than appeared quite aftonihing. Some hiftorians pretend that he effablinhed the Englih laws in all thoofe parts which had fubmitted to his jurifdiction ; but this mull appear extremely improbable, wlen we confider how tenacious a rude and barbarous people are of their ancient laws and culloms. The iriuh lords had been accullomed to do homage to a fuperior; and they had made no fubmifion to Henry which they had not formerly done to Roderic, and probably thought their fubmiffion to the King of Englard mere honourable thai that to their Irih monarchs; and it cannat be fuppefed, that a wife and politic monarch, fuch as

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Henry undoubtedly was, fhould form at once fuch an extravagant fcheme as altering the laws of a great num. ber of communities, none of which he had fubdued by force of arms. By his tranfactions buth with the natives and adventurers, however, Henry had attained the abfolute dominion of feveral maritime cities and their dependencies; to that he had both a confiderable number of real fubjects, and a large extent of territory, in the illand. To thefe fubjects indeed Henry granted the Englihh laws; and gave the city of Dublin by charter to the inhabitants of Briftol, to be held of him and his heirs, with the fame liberties and tree cuftoms which they enjoyed at Brillol, and throughout all his Jand. And, by another charter, executed foon after, he confrmed to his burgeffes of Dublin all manner of rights and immunities throughout his whole land of England, Normandy, Wales, and Ireland, wherever they and their effects fhall be, to be fully and honourably enjoyed by them as his free and faithfu! fubjects. And as it was not eafy to induce his Englifh fubjects immediately to fettle in thefe maritime rowns, he permitted the Oitmen to take polfeftion of Waterford; and to them he granted a particular right of denization, whereby they were invefted with the rights and privileges of free fubjects, and for the future to be governed by the laws of his realm. For the better execution of thefe new laws, the king allo made a divifion of the dillricts now fubject to him into thires or counties; which was afterwards improved and enlarged, as the extenfion of the Englih fettlements and the circumftances of the country required. Sheriffs were appointed both for the counties and cities, with itinerant judges, and other minifters of juftice, and officers of flate, and every appendage of Englifh government and law. To complete the whole fyltem, a chief governor, or reprefentative of the king, was appuinted. His bufnefs was to exercife the royal authority, or fuch parts of it as might be committed to him in the king's abfence; and, as the prefent flate of Ireland, and the apprehenfions of war or infurrections, made it neceflary to guard againft fudden accidents, it was provided, That in cafe of the death of any chief governor, the chancellor, treafurer, chiefjuflice, and chief baron, keeper of the rolls, and king's ferjeant at law, ftoould be empowered, with confent of the nobles of the land, to elect a fucceffor, who was to exercife tise full power and authority of this office, until the royal pleafure fhould be further known.

But while Henry was thus regulating the government of his new dominions, he received the unwelcome news, that two cardinals, Albert and Theodine, delegated by the pope, had arrived in Normandy the year before, to make inguifition into the death of Becket; that having waited the king's arrival until their patience was exhautled, they now fummoned him to appear without delay, as he would avert the dreadful fentence of excommunication, and preferve his dominions from a general interdict. Such denunciations were of too great confequence to admit of his longer flay in Ireland ; he therefore ordered his forces and the officers of his houfehold to embark without delay, seferving three llips for the conveyance of himfelf and his immediate attendants. Having therefore but a flort time to fecure his Inith intereits, he addrefled

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himfelf to the original Englifh adventurers, and by
Itcland, grauts an.? promiles laboured to detach them from Strongbow, and to bind them firmly to bimfelf. 'ro make amends for what he lad taken from Fitz-Stephen, he granted him a confiderable diltrict in the neighbourhood of Dublin, to be held by linight's \{ervice; at the fame time entrusting the maritime toms to his own inmediate dependants. Waterford was committed to Humphrey de Bohun, Kubert litz-Bernard, and Hugh de Gundville, with a train of 20 knights. In Wexford were Aationed William Fitz-Andelm, Philip of Haftings, and Philip de Braofa, with a like number of attendants. Hugh de Lacey had a grant of all the territory of Meath, where there was no fortified place, and where of confequence no particular refervation was neceflary, to be held of the king and his heirs, by the fervice of 50 knights, in as full a manner as it had been enjoved by any of the Irilh princes. He alfo contlituted him lord governor of Dublin, with a guard of 20 knights. Kobert FitzStephen and Maurice Fitz-Gerald were appointed his coadjutors, with an equal train; and thefe, with others of the firt adventurers, were thus obliged, under the pretence of an honourable employment, to refide at Dublia, fubject to the immediate infpection of De Lacey, in whom Henry feems to have placed his chief confidence. Lands were alligned in the neighbourhood of each city for the maintenance of the knights and foldiers. Orders were given to build a caftle in Dublin, and fortreffes in other conveniert places; and to John de Courcey, a baron diftinguithed by his enterprifing genius and abilities for war, was granted the whole province of Ulfter, provided he could reduce it by force of arms.

Henry was no fooner gone, than his barons began Diforders to contrive how they might bell firengthen their orn e fie or, interefts, and the Irifh how they might beft Make off departure. the yoke to which they had fo readily fubmitted. De Lacey parcelled out the lands of Meath to his friends and adherents, and hegan to erect forts to keep the old inhabitants in awe. This gave offence to O'Ruarc, who ftill enjoyed the eaftern part of this territory as a tributary prince. He repaircd to Dublin, in order to obtain redrefs from Lacey for fome injurics real or pretended; but, as the parties could not come to an agreement, another conference was appointed on a hill called Tarash. Both parties came with a confiderable train of armed followers; and the event was a fcutlle, in which O'Ruarc and feveral of his followers were killed, and which ferved to render the Englith not a little odious to the natives.

The fpirit of difaffection had foon after an opportunity of thowing jtfelf on the rebcllion of King Henry's fons, of which an account is given under the article Englavd, $\mathrm{N}^{0} 121$, et feq. 'The king had been obliged to weaken his forces in Ireland, by withdrawing feveral of his garrifons. 'The foldiers who remained were allo difcontented with their gencral Hervey of Mountmorris, on account of his feverity in dif. ciphne, and reftraining them from plunder, to which they imagined thenfelves entitled on account of the deficiencies of their pay. Raymond le Gios, the fccond in command, was much more beloved by the foldiery; and to fuch a height isad the jealoufies between the commanders arifen, that all cffectual op-
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Stronghow the firt gevernor of Ireland.
poftion to the Trih cliieftains was prerented; ind the event might have been fatal to the Englin intereft, had no: Henry found out a remerly. He fummoned Earl Richard to attend him at Rouen in Normandy, an l communicated his intentions of committing the affairs of Ireland to his fole direction. The earl exurciled tie utmol? readine!s to ferve his matter; bu: obferwed, that he had a'ready experienced the envy and malignity of his fecret enemies; that if he thould appear in fuch a difinguithed character as that of the king's deputy in Ireland, their infidious practices would be renewed, and his conduct mifreprefented.He therefore requelled that a colleague might be afpointed in the commifion; and recommended Raymond as a perfon of approved loyalty and abilities, as well as highly accepiable to the Coldiery. The king replied, with an affected air of regard and confidence, that he had his free confent to empluy Raymond in any fervice he hould deem neceffary, not as a colleague, blit as an alfiftant ; but that he relied entirely on the earl himfelf, and implicitly trulted every thing to his direction. To reward his fervices, he granted him the town of Wexford, together with a fort erected at Wicklow ; and then difmiffed him with the moft gracious exprellions of favour.

The earl landed at Dublin, where he was received with all the refpect due to the royal commiflion. He fignifed the Ling's pleafure, that Robert Fitz-Bernard, with the garrifon of Wraterford, fhould inftantly embark and repair to Nurmandy; that Robert Fitz-Stephen and Maurice Pendergatt thould attend the fervice of their fovertign in England; and, agreeably to the king's infiructions, took on him the cultody of the cities of Du' lin, Waterford, and Wexford. Hugh de Lacey and Mito de Cogan were, with the other lords, commanded to repair to England for the fervice of the king; by which the earl's forces were confiderably weakened, and he foon found himfelf under the neceffiy of appointing Raymond to the chief command. The new general proved fuccetsful in fome enterprifes againft the rebellious Irih; bui laving prefumed upon his merits to demand in marriage Bafilia the earls fifter, Richard refufed his confent, and Raymond retired into Wales.

Thus the fupreme command again devolved upon Hervey of Mountmorris; who, being fentible that his character bad fuffered much from a comparifon with that of Raymond, 'eiermined to emulate his fucceffes by fome bold attempt againft the rebels. A detachment of 400 of his men, however, had the misfortune to be furprifed and cut off by the enemy; and this
fuccefs ferved as a fignal for a seneral revolt. Several of the Leinter chieftains, who had lately male their fubmiffions, and bound themfelves to the fervice of King Heary, now operly difclaimed all engagements. Even Donald Kevanagh, fon to the late King Dermed, who had hitherto adhered to the Englifi in their greateft diffilulties, now declared againlt them, and ciaimed a right to the kincdom of Leimfter; while Rcderic, on his part, was active in uniting the princes of Wliter, the native lords of Meath, and other chic's, againf their common enemy. This produced the immediase recal of Raymond; and Richard no longer refufed his confent io the marriage with his fifter, which was folemuized inmediately on Raymond's
arrival. The very next morning, the bridegroori wis oblised to t.ke the feld again? Roderic, who bad committed great devaftations in Mieath. By the vigorous cunduct of the Enchii! commander, however, he was not onls prevented from coung farther michief, but at la!l convinced of the folly of retiltance; and Roteric therefore determined to make a final fubmiffion. Yet, fubmits confcous of his dignity, he difdained to fubmit to a Henry . fubject ; and therefore, inltead of treating with Earl Richard, he fent deputics directly to the king. The deputics were, Catholicus archbifiop of Tuam, the abbot of St Brandan, and Mafer Lawerce as he is ftyled, chancellor to the king of Cornaught.

The terms of this fubmifion, by which Henry be-Termso came fole monarch of Ireland, were as folluw: Ro- his iubm deric confented to do homage and pay tribute, as ${ }^{\text {hon }}$ liegeman to the hing of England; on which condition he was allowed to hold the kingdom of Connaught, as well as his other lands and forereignties, in as ample a manner as he had enjoyed them before the arrival of Henry in Ireland. His vaffals were to hold under him in peace, as long as they paid their tribute and continued faithful to the king of Eugland; in which Roderic was to enforce their due obecitence, and for this purpofe to call to his affiftance the Englift government, if neceffary. The annual tribute to be paid was every icth merchantable lide, as well from Connaught as from the relt of the illand; excepting thofe parts under the immediate domition of the king of England and his barons, viz. Dublin ard Meath with their appustenarces, Wexford and all Leinfter, and Waterford with its lands as far as Dur. garsan inclufive ; in all which diftricts Roderic was not to interfere, n:or claim any power or authority.The Irith who had Hed from thefe diftricts were to return, and either pay their tribute, or perform the fervices required by their tenures, at the option of their immediate lords; and, if refractory, Roderic, at the requifition of their lords, was to compel them in return. He was to take hoftages from his vailals, fuch as he and his liege-lord thould think proper; and on his part to deliver either thefe or others to the king, according to the royal pleafure. His vaffals were to furnin hauks and hounds annually to the Englith monarch; and were not to detain any tenant of his immediate demefnes in Ireland, contrary to his royal pleafure and command. This treaty was lolemnly ratified in a grand council of prelates and tempora! batons, among whom we find the archbilhop of Dublin one of the fubferibing witneffes. As metropolitan of Leinfter, he was now become an Englinh lubject, and was probably fummoned on this occafion as one obliged to attend, and who had a riglit to affit in the king's great council. It is alfo oufervable, that Henry now treated with Roderic not merely as a provincial prince, but as monarch of Ireland. This is evidently implicd and fuypofed in the articles; although his monarchical powers and privileges wcre little mote than nominal, frequently difregarded and oppnefed by the Irith toparchs. Fisen by their fubmiffions to Henry, many of them in effect difavowed and renounced the fovereignty of Rnderic; but now his fupremacy feems to be induftrioully aclnowledged, that the prefent fubmiflion might arpear virtually the fubmiffion of all the fubordinate princes, and thus the

## $1 \mathrm{REE}\left[\begin{array}{lll}331\end{array}\right] \quad \mathrm{I} R \mathrm{E}$

reland. king of Englan.l we invelled with the forereignty of the whole illand. 'ithe marks of lovereign: $y$, however, were no more than homage and tribute; in every other particular the regal rights of Roderic were left insiolate. The Englibla laws were only to be enforced in the Englifin pale: and, wen there, the Irilh tenant might live in peace, as the fubject of the Irith monarch ; bound only to pay his queta of tribute, and not to take armis againt the king of England.

But though the whole illand of Ireland thus becanse fubject to the king of England, it was far from being lettled in tranquility, or indeed from having the fituation of its inbabitants mended almort in any degree. One great occation of difursance was, that the Englith laws were confined only to thole parts which had been fubdued by force of amms: while the chieftains that had ouly fusmited to pay tribute, were allowed to retain the ancient Lrith laws within the limuts of their own jurildictions. By thefe old Irilh lawe, many crimes accounted capital with us, tuch as robbery, murder, むce might oe compenlated by a lum of money. Hence it happened, that very unequal punihments were intliced for the fame offence. If one Englilhman kilied another, he was punibed with death ; but if he killed an I uhman, he was punthed o:ly by a fine. If an Irilhman, on the other hand, killed an Englihman, he was certainly pusihed with death: and as in time of violence and outrage, the crime of murder was very frequent, the circumftance juft mentioned tended to produce an implacable hatred Ectween the original inhabitants and the Englikh. As the Irilh laws were thus more farourable to the barbarity natural to the tempers of fome individuals, many of the Enyliih were alio tempted to lay alide the manners and cuitoms of their countrymen altogether, and to affuciate thenifelves with the Irilh, that, by becoming fubject to their laws, they might thus have an oppostunity of gratifying their brutal inclinations with lefs controul than formerly; and in procefs of time, thefe degenerate Engli/h, as they were ca!led, proved more bitter enemies to their countirymen than even the Irih themfelves.

Another caufe of the diftrentes of Ireland was, the great power of the Englih barons, among whom Henry had divided the greatelt part of his Irih cloininions. The extent of their authority only inflamed them with-a deàre for more; ant, inflead of contributing their endenvours to increafe the po:ver of their fov reizn, or to civilize the baibaious people owr whom they were placed, they did every thing in their power to countera\&t and deltray each othor. Hemy hintelf, indee.t, feems to have been infected with a very fatal jealoufy in this refpeat ; for, though the abilities and fodelity of Raymond had abundantly manifelled themfelses, the king rever could allow himfelf to fomtinue his in the goverument of the illand: and the con equence of desrading him never failed to be a fene of urraar and confufios. Tos thefe two reafons we mut likewife ald anomet: namply, that in thoe pirts of the kingden where the lrih chieftains enjaved the fovereignty, they were at fu!l liberty to mike war unon each other as furmerly, without the leat reftraint. 'linis likewife inluced many of the Englith to degererate, that they migh: have an or portanity of fharing tise plunder fot by thele petty
wars; fo that, on the whole, the illand was a perpctual feene of horror, altont unequallod in the nilory of any country.
After the death of Earl Richard, Raymond was im- F1 $\stackrel{30}{30}+\mathrm{n}$ medrately elected to fucceed him; but was fuperfeced del $n^{2}$. hand by the king, who appuinted William Fitz-Andelm, a povernnobleman allied to Raymond, to lacceed in his place. The new governo: had neither inclination rior abilities to perform the tah alligned to him. He was of a rapacious temper, fenfual and corrut in his manaers; and therefore only fludied to enrich himatio. The native Irifh, provoked by fome depredations of the Englih, commenced hortilities: but Fitz-Andelm, inAtead of repretfuy ihefe with vigour in the beginning, trcated the chieftains with affeced courtefy and Hzttery. This they had furicient difeernment to fee, and to defpife; while the eriginal alventuress had the burden of the whole defence of the Englith pale, as the Englith territories were called, thrown upon them, at the lame time that the bad conduct of the governor was the caufe of perpetual diforders. The confequence of this was, that the lords ayowed their hatred of FitzAndeim: the fol diers were mutirous, ill-appointed, and unpaid: and the linh came in crowds to the governor with perpetual complaints againft the old adventurers, which were always decided againft the latter; and this decition increaded their confidence, without leffening their ciflffection.

In this unfarourabie fate of affairs, John de Courcey, a bold adrenturer, who had as yet reaped none of the benefits he expected, refolved to undertake an expedition againf the natives, in order to enrich himfelf with their fpoils. The Irifh at that time were giving no offence; and therefore pleaded the treaty lately concluded with King Henry : but treaties were of little avail, when put in competition with the necelfities of an irdigent and rapsciuns adventurer. The confequence was, that the tlame of war was kindled through the whole illand. The chieftains took adrantage of the war with the Engliin, to commence hoorilities againt each other. Defmonal and 'Thoomond, in the fouthenn province, were dillracted by the jealoufies of contendisig chiefs, and the thole land was wafted by unnatural and bloody quarrels. I reachery and murder were revenged by practices of the lime kind, in fuch a manner as to perpet:1ate a fuccefion of outrages the molt horrid and the mo ! ligracel:a to humanity. The northern provirce mas a fene of the like enormities; though the new: Eņ tuh .etters, wo were conlidered as a common eneny, ought to bave united the natives among them!elves. All itere equally Arangers to the virtues of humanity; nor was religion, in the form it then aflumed, capable of relirainng thefe violences in the leatt.

Ireland was thus in a fhort time reduced to fuch a He is fupero ftate, that Henry perceived the necelfity of recaling of ded iy Firz-Andelm, and appointins another gove ner. He Lacey. was recalled accor.ingly; and Hugh de Lascy appuinted to fucceed him. He left his governament witho out being regretted, and is laid by the nittrians of thofe times to have done only one grood action duing the whole courfe of his alminiltration. This action was nothing more important, than the removine of a relick, called the faff of felur, from the cathedral of Arinagh to that of Dubliu; probably that it might Tt 2

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lrefand. be in greater fafety, as the war raged violently in Ulfter. De Lacey, however, was a man of a quite

32 Prince John marle lord of Ireland.
different difpolition, and every way qualified for the dificult government with which he was inverted : but at the fame time, the king, by invelting his fon John with the lordilijp of Ireland, gave occafion to greater dillurbances than even thofe which had already happened. The nature of this lordhip hath been much difputed; but the moft probable opinion is, that the king's fon was now to be invelted with all the rights and powers which had formerly belonged to Roderic, who was allowed the title of king of Ireland. It doth not appear, indeed, that Henry had any right to deprive Roderic of thefe powers, and ftill lefs had he to difpofe of any of the territories of thofe chieftains who had agreed to become his tributaries; which neverthelefs he certainly did, and which failed not to be productive of an immediate war with thefe chiefs.

The new governor entered on his office with all that fpirit and vigour which was neceffary; but being mifreprefented to the king by fome factious barons, he was in a thort time recalled, and two others, totally unfit for the government, appointed in his room. This error was foon corrected, and Lacey was replaced in three months. The fame jealouly which produced his firft degradation, foon produced a fecond; and Philip de Braofa, or Philip of Worcefler as he is called, a man of a molt avaricious difpofition, was appointed to fucceed bim. This governor behaved in fuch a manner, that his fuperllitions fubjects expected every moment that the vengeance of heaven would fall upon him, and deliver them from his tyranny. His power, however, was of thort duration; for now Prince John prepared to exercife the authority with which his father had invelled him in Ireland. He was attended by a confiderable military force: his train was formed of a company of gallant Normans in the pride of youth; but luxurious, infolent, and followed by a number of Englifhmen, ftrangers to the country they were to vilit, defperate in their fortunes, accultomed to a life of profligacy, and filled with great expectations of advantage from their prefent fervice. The whole affembly embarked in a fleet of 60 flips ; and arrived at Watcrford after a profperous voyage, filling the whole country with the greateft furprife and expectation.

The young prince had not yet arrived at the years of difcretion; nor indced, from his fubfequent conduct, doth it appear that his difpofition was fuch as qualified him in the leall for the high dignity to which he was raifed. The hardy Welfmen who firlt migrated into Ireland, immedjately waited upon him to do him homage; but they were difagreeable to the gay courtiers, and to the prince himfelf, who minded nothing but his plealures. The Irifh lords were at firlt terrified by the magnificent reprefentation of the force of the Engliih army; and being reconciled to fubmifion by the dignity of the prince's ftation, hafened in crowds to Waterford to do bim homage. They exhibited a fpectacle to the Norman courtiers, which the latter did not fail to treat wirh contempt and ridicule. The Irilh lords, with uncouth attire, thick bufly beards, and bair ftanding on end, advanced with very little ceremony; and, according to their own notions of refpect, offered to kifs the young prince. His attendants flepped in, and prevented
this horrid violation of decorum by thruling away the Irithmen. The whole affembly burft into peals of laughter, pulled the beards, and committed feveral other indignities on the perfons of their guefts; which were immediately and feverely refented. The chieftains left the court, boiling with indignation; and meeting others of their countrymen haftening to do homage to the prince, they informed them of the reception they themfelves had met with. A league was A genera initantly formed to extirpate the Englifh, and the revoit. whole nation flew to arms; while John and his cour,tiers, inflead of oppofing the enemy, employed themfelves in haralfing and opprefing thofe who were under their immediate jurifdiction. The country was therefore overrun by the barbarians, agriculture entirely neglected, and a dreadful famine threatened to follow the calamities of war.

- This terrible devaftation had continued for eight months before the king was fully acquainted with it. He then determined to recal his fon; but was at a lofs whom he thould name for his fucceflor. Lacey had been murdered by an Irihi peafant, and the king was at laft obliged to have recourfe to John de Ccurcey, whofe boifterous valour feemed now to be atfolutely neceffary to prevent the Englifh from being totally exterminated. The new governor was obliged at firt to supprefe, act on the defenfive; but as the enemies foon forgot by Johnc the league, and began their ufual hoftilities againft Cources. each other, he was at laft euabled to maintain the authority of the Englilh gavernment, and to fupport their acquifitions in Ireland, though not to extend them.

In this fituation were the affairs of Ireland when Miferable Henry II. died, and was fucceeded by his fon Rich- tate of Ir ard I. The new king was determined on an expedition land unde to the holy land, which left bim no leifure to attend to the affairs of Ireland. John, by virtue of the powers granted him by his father, took upon him the management of Irih affairs ; and immediately degraded De Courcey from his government, appointing in his place Hugh de Lacey the younger. De Courcey, provoked at this indignity, retired into Ulfter, where be was immediately engaged in a furious war with the natives, and at laft almolt entirely detached himfelf from the Englih government. The greatelt confufion enfued: Hugh de Lacey was recalled from his government, and William Petit earl marfhal of England appointed in his place. Petit's adminiftration proved more unfortunate than that of any of his predeceffors. Confederacies everywhere took place againf the Englill; the latter were everywhere defeated, their towns taken; and their power would certainly have been annihilated, had not the Irift, as ufual, turned their arms againft each other.

In this defperate fituation matters continued daring the whole reign of King Richard, and part of the reign of John, while the diftreffes of the counitry were increafed by the diffenfions and difaffection of the Englifh lords, who afipired at independency, and made war upon each other like Irill chieftains. The prudent Somewha ${ }^{37}$ conduct of a governor named Meiler Fitz-Henry, how- better un ever, at laft put an end to thefe terrible commotions; der John, and about the year 1208 , the kingdom was more quiet than it had been for a long time before. In 1210 , John came over to Ireland ia perfon with an
reland. army, with a defign, as he faid, to reluce his refractory noblcs to a fenfe of their duty. More than 20 Irilh chiefs waited upon him immediately to do him homage ; while three of the Englifh barons, Hugh and Walter de Lacey and William de Braofa, fled to France. The king, at the defire of his Irifh fubjects, granted them, for their information, a regular code and charter of laws, to be depofited in the exchequer of Dublin, under the king's feal. For the regular and effectual execution of thefe laws, befides the eftablifhment of the king's courts of judicature in Dublin, there was now made a new and more ample divifion of the king's lands of Ireland into counties, where theriffs, and many other officers, were appointed. Thefe counties were, Dublin, Meath, Kildare, Argial, now called Loweth, Katherlagh, Kilkenny, Wexford, Waterford, Cork, Kerry, Limeric, Tipperary; which marks the extent of the Englith dominions at this time as confined to a part of Leinfter and Munfler, and to thofe parts of Meath and Argial which lie in the province of U1fier as now defined. Before his departure, the king gave liberty to John de Grey, bilhop of Norwich, whom he appointed governor, to coin money of the fame weight with that of England; and which, by royal proclamation, was made current in England as well as Ireland.

This ecclefiaftical governor is faid to have managed affairs fo happily, that during the violent contefts between John and his barons, Ireland enjoyed an unufual degree of tranquillity. We are not to imagine, however, that this unhappy country was at this or indeed any other period, till the end of Queen Elizabeth's reign, perfectly free from diforders, only they were confined to thofe difriits mofl remote from the Englifh government. In 1219, the commotions were renewed, through the imneafurable ambition and contentions of the Engliih harons, who defified all controul, and opprefied the inhabitants in a terrible manner. The diforders in England during the reign of Henry III. encouraged them to defpife the royal authority; they were ever the fecret enemies, and fometimes the avowed adverfaries, of each other; and in many places where they had obtained fettements, the natives were firlt driven into infurrections by their cruelty, and then punifhed with double cruelty for their refiftance. The Englifh laws, which tended to punifl the authors of thefe outrages, were forned by an imperious ariftocratic faction, who, in the frenzy of rapine and amhition, trampled on the mofl falutary inflitutions. In 1228, a remonftrance was prefented to the king againf this dangerous neglect and fufpenfion of the laws; which he anfwered by a mandate to the chief governor, directing that the whole body of nobility, knights, free tenants, and bailiffs of the feveral counties, flould be convened; that the claarter of Englinh laws and cuftoms received from King John, and to which they were bound by oath, flould be read over in their prefence; that they flould be directed for the future frictly to obferve and adhere to thefe; and that proclamation fhould be made in every county of Ireland, frictly enjoining obedience, on pain of forfeiture of lands and tenements. How little effect was produced by this order, we may learn from another, dated in 1.246 ; where ti.e barons are commanded, for the peace
and tranquillity of the land, to permi it to be govenned Pacianci. by the laws of England.

Nothing indeed can be conceived more torribie than Excefine the flate of Ireland during the rign of Henry IIl.elcepravation Pcople of all ranks appear to have been furk in the of mawers. lowell degree of depravity. The powerful Linglith lords not only fubverted the peace and focurity of the people, by refufing to admit the falutury laws of their own country, but behaved with the utmoft injuftice and violence to the natives who did not enjoy the benefits of the Englith connitution. The clergy appear to have been equally abandoned with the reft: nor indeed could it be otherwife ; for through the partialities of Henry himfelf, the neglected, the worthlefs, and the depreffed among the Englifh clergy, found refuge in the church of Ireland. What were the manners of thefe clergy, will appear from the following petition of a widow to King Edward I.
"Margaret le Blunde, of Cafhel, petitions our lord the king's grace, that fhe may have her inheritance which the recovered at Clonmell before the king's judges, \&c. againft David Macınackerwayt bifhop of Cafhel.
" Itcm, the faid Margaret petitions redrefs on account that her father was killed by the faid bilhop.
"Item, for the imprifonment of her grandfather and mother, whom he thut up and detained in prifon until they perifhed by famine, becaufe they attempted to feek redrefs for the death of their fon, father of your petitioner, who had been killed by the faid bifhop.
"Item, for the death of her fix brothers and fifters, who were flarved to death by the faid bifhop, becaufe he had their inheritance in his hands at the time he killed their father.
"And it is to be noted, that the faid bifhop had built an abbey in the city of Calhel, on the king's lands granted for this purpofe, which he hath filled with robbers, who murder the Englifh, and depoptlate the country; and that when the council of our lord the king attempts to take cognizance of the offence, he fulminates the fentence of excommunication againll them.
" It is to be noted alro, that the faid Margaret has five times crofled the Irill fea. Wherefore, fle petitions for God's fake, that the king's grace will have compaffion, and that the may be admitted to take polfeffion of her inheritance.
" lt is further to be noted, that the aforefaid bihop hati been guilty of the death of many other Englinhmen befides that of her father ; and that the aforcfaid Margaret hath many times obtained writs of our lord the king, but to no effect, by reafon of the influence and bribery of the faid bifhop.
"She further petitions, for God's fake, that fhe may have cofts and damages, \&c."

Matters continued in the fame deplorable ftate du-Little alteo ring the reign of Edward I. with this additional grie-ration unvarace, that the kingdom was infefled by invafions of der Filthe Scots. The Englith monarch indeed poffeffed all ward ${ }^{\text {E }}$ that prudence and valour which were neceffary to have reduced the ifland to a fate of tranquillity; but his proiect of conquering Scotland left him but little leifure to attend to the diftracted flate of Ircland. Certain it

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m.land. is, however, that the grievous diftefs of that country gave him great uneafinefs; fo that he tranfmitted his mandate to the prelates of Ireland, sequiring them to interpofe their pinitual authority for compoing the public diforders. About the fame time, the I ith who lay contigunus to the Englith, and who dwelt among them, prefented a petition to the king, uffering to pay him Soco merks, upon condition that they were admitted to the privileges of Englilh tubijects. To this petition he returned a favourable aniwcr; but his rond intentions were defeated by the lice times nobjlity, who knew that thefe laws would have sircumfcribe: their rapacions niews, and controal; their vio:ence and opprellion. Petitions of the fane kiad were feveral times repeated during this reign, but as often defeated; though fome means were ufed for the peace of the kingdom, fuch as the frequent calling of parliaments, appointing fterifs in fome new counties, \&c.
Thefe means were not aliogether withont effect. They ferved to give fome check to the diforder, of the realm, though by no meatis to terminate or fuidue then. The incurions of the natives were repiefled, and the Englifh lords begai to lire on better terms with each other; and, in 1311, under Edward II. the moll powerful of them were r.conciled by the marriage of Maurice and Thomas Fitz-John, afterwards the heads of the ilimitious hou'cs of Defmond and Kildare, to two daughters of the earl of Ulitte. But juit at this happy period, when the nation feemed to have fome profpect of tranquillity, more dreadful ca-
tami.e prevented him from being of any effential fer- Ireland. wice. 'the forces whic!? he left behind him, however, proved a conterable advantage; and by means of this reinforcement, he was enabled to take the city of Carrick:ic. gus,
Tre terrible devaftations committed by Bruce and lis a Tociates, now induced fonie Englifh lords to enter inis an athocid:on to detend their prifeffions, and repel thefe invaters. For this parpofe, they raifed a confiderable buth of fores; which coming to an engagement with Fediun mince of Connausht, one of Bruce's priar p.' allies, contie'y defeated and killed him with 8000 of his men. 'This defeat, however, had very hicte efict on the operations of Bruce himfelf. He ravaret the comatry to the walls of Dublin, traverfed the ditirict of O.lory, and penetrated into Miunter, detirosing every thing with fire and fword. The Enulith comtinued to ausment their army, till at laft it amounted to 30,000 men; and then Buyce, no longer able to oppole fuch a force, found it necelfary to retire irto the protince of Ulfer. His retreat was effected with great dificulty; and during the time of his inativity, the difieffes of his army increafed to fuch a degree, that they are faid to have fed upon the bodies of their dead companions. At laft an end was fut to the fufferings and the life of this adventurer in the battle of Dundalk, in 1318 , where he was defeated They are and killed by the Enelith under Sir Robert Birming-tolalily deham. A brave Englifh knight, named Maupas, had ${ }^{\text {feated. }}$ rulled forward to encounter Bruce limfelf, and both antagonils had killed each other ; the body of Manpas being found, after the battle, flretched upon that of Bruce. The king of Scotland had been advancing with powerful fucceurs to his brother: but Edward, confident of victory, refufed to wait his arrival ; and Robert, on hearing of his brother's death, inflantly retired.

The defeat of the Scottith invaders did not put an end to the difturbances of this unhappy country. The contentions of the Englifh with one another, of the Irifh with the Engl:ih, and among thenfelves, fill kept the ifland in a fate of the utmoll barbarity and confufion. An attemut was inade indeed, in the reign of Edward II. to ctablila an univerity in Dublin; but for want of proper throurgenent the inflitution for fome time languihed, and then expired amidft the confufion and anarchy of the cantry. The reign of Edward 111. proved not much more farourable than preceouing times had been. He was ton such taken Miffiec of up with the idea of conquering France, to pay much the Irim regard to the interelts of Ireland. The unhappy wander Edpeople, indeed, fenfible of ther own miferies, petitioned the king to admit all his fubjects in Irelond to a participation of the Englifl laws; but the petition being delivered as ufual to the chief governor, and laid before the parliament, it was either clandeflinely defeated or openly rejected. A ne's frene of tumsit and bloodilhed inmediately enfued; which at latt , aroduced an order from the king, prohibiting all lribhmen, or Englifhmen married and having eltate, in Ireland, from bearing any pubiic office whatever.This, inftead of having a tendency to promote peace, made the diforder much greater :han before; and at lait produced a remonfrance fro:n the flater met at Kilkenny, in which they grieroully , complain not only

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Ieland. of the diforders of the $k$ :ngdom, but alfo of the conduct of the l:ing himfelf in the ediet above-mentioned: and to this renomitrance the king thought proper to give a gracious and condefeending anfiscr, in order to procure from Ireland ilie fuccours he wanted in his expedition againt France.
It is not to be fuppoied, that mere promifer, unaffilled by any vigorous exertion, could make the leaft alteration in the fate of a kingdom involved in fo much mifery. The diforders, however, at laft became infupportable to the inhabitants themfelves; and a parliament was funmoned in 1368 , the refult of which was the famous ftatute of kilkenny. The preamble to this act recites, that the Englih had become mere Irih in their language, names, apparel, and manner of living ; had rejected the Englihh laws, and lubmitted to thofe of the Irih, with whom they had united by marriage-ailiance, to the ruin o the commonwealth. -It was therefore enacted, that marriage, nurture of infants, \&c. with the Irilh, fhould be confidered and punifhed as higb treafon.-Again, if any man of Engiith race thall ufe an Irih name, the Irih language, or the Irifh apparel, or any mole or cuftom of the Irim, the act provides, that lie mall forfeit lands and tenements, until he heth given fecurity in the court of chancery to conforin in every particular to the Englih-manners; or if he have no lands, that he thall be imprifoned till the like fecurity be given. The Brehon law was pronounced to be a pernicious cuftom and innovation lately introduced among the Engli.h fubjects; and it was therefore ordained, that in all their controverfies they thould be governed by the common law of England; and that whoever thould fubmit to the Irih jurifdiction thould be adjudged guilty of high treafori. As the Englith had been accuftomed to make war or peace with the bordering Irih at pleafure, they were nost exprefsly prohibited from levying war without feccial warrant from the ftate.-It was alfo made highly penal for the Enylifh to permit their Itifh neighbours to graze their lands, to prefent thera to ecclefiafical benefices, or to receive them into monafleries or religious houfes; to enterai:s their bards, who perverted their imaginations by romantic taics; or their news-tellers, who feduced them by falice reports.- It was made felony to immofe or cefs any forces upon the Englifh fubject againf his will. And as the royal liberties and franchiles were become fanetuaries for maiefetors, cxprefs power was given to the king's Berifis to eater into all franchifes, and there to apprehend felons and traitors.-Lally, becaufe the great lords, :shen they levied forces for the pablic fervice, ahed with partiality, and hid wequal burdens upon the fuhjects, it was ordained that fou: wardens of the peace in every county thould adjudge v:hat men and armour every iord or tenant fhould provide - The ftatute was promu!ge! with particular fol minty; and the fpiritunl lorde, the better to en:orce ojedience, denaunced an evconms. nication on thofe who lhould prefume to siolate it in any inftance.

This it rute, it is evident, could not tenl to promote the peace of the kingdom. This could oniy tave been done hy remnvins the animofity betucen the merive Iriih and Englin; But fo far was th: Rat teo Kilkenny from having any tendency of this krod, that it

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manifefly tended to increafe the hatred between them. Ireland. During the whole of this reign, thereforc, the flate of the lrih government continued to be graatly dilordercd and enibroiled. The Englibh intere凡 gradually declined; and the connections of the king's fubjects with the original inhabitants, occafioned by their vicinity and neceflary intercourfe, in defpite of all lcgal injunctions, obliged the king to relas the feverity of the flatutes of Kilkenny, in cafes where they proved impracticable, or oppreffive in the execution. The perpetual hoffility, however, in which the different parties lived, proved an effectual bar to the introduetion of thofe arts which contribute to the comfort and refinement of mankind. Even foreigu merchants could not venture into fuch a dangerous country without particular letters of protection from the thone. The perpetual fucceffiois of new adventurcers from England, led by intereft or neceflity, ferved only to intame diffenfion, inftead of introducing any effential improvement. Laryers fent from England were notorioufly infufficient, if not corrupt; and, as fuch, had frequently been the objects of commaint. The clergy were a mean grovelling race, totally influenced by the crown. Even prelates were commonly made the inferior agents of government in colle Cing forces, and raiing war againlt the Irilh enemy; but were not to be enticed into this fervice, except by remittances from the cxchoquer. Attendance in parliament they dreaded as the greatell hardhip; and cither recurred to mean excules to avert the penalty of abfence, or fued to the king to be exempted by patent from contributing or affenting to thofe laws by which they were to be governed.

In this deplorable fituation the kingiom continued Power of till the time of Henry VII. who laid the foundation the Englifh of the future civilization of the Irilh, as he alfo did of rave res unthe Englifh nation. This he effected by enacting fome vir. falutary laws, and appointing faithful and active governors to fee them put in execution. Of thefe governors Sir Edward, Poyning contribnted more than any other to the trinquillity of the flate. During his adminilration was enacted the law known by the name of Poyning's Laze, and which hath fince been the fubject of much political debate. The purport of it was, Poyning's That no parliament thould be held in that illand with hais. out firff giving notice to the king of England, and acquanting him with the acts to be paffed in that parliament: neither thould any act paffed, or any parliament held, withoat the approbation of the king and council, be deemed valid. Thus was the power of the turbulent barons greatly broken; and the governor, not having it in his porver to affemble parliaments when he pleafed, became a pelton of much lefs confequence. The whole Irilh legillation alfo hecame dependent on that of England, and hath ever fince continued to be fo.

From this time we may date the revival of the Englifh power in Ireland : which fros the Scotti? "ar in the time of Fed uard If. had aradualy declined into a miferable and precar:ow inate of weaknef. 'The quthority of the ciom, "lic's had at lat bee al defies, infuted, and rejeged. evon in the En lith terrionery, was retoret and canfomed, and tie reinclinus vigeroully oppine! an! furpre at. The feigury of the Britilh cruwn over the whole body of the Iith, which

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Treland. in former rigns feemed to have been totally forgotten, was now formally claimed and afferted, and lome of the motl ferocious chieftains by their marriage connections lecame the avowed friends of the Englith power. An ignominious tribute, called the Black Rent, was indeed filll paid to fome chieftains; but their hoftilities were oppofed and chatifed, and even in their own diftricts they were made to feel the fuperiority of Englifh government.

During the reign of Henry VIII. the Irifh aftairs sere neglected; and the diforders, which had only been checked, and never thoroughly eradicated, returned as ufual. They were further promoted by the innovations in religion which the king introduced, and which were exceedingly difagreeable both to Englifh and Irith. The Reformation, however, continued to make fome progrefs, though flowly, during the reign of Edward VI. and even in the reign of Queen Mary ; for as the perfecution did not reach thither, many Pro- teflants fled to lreland in order to avoid the queen's cruelty. The machinations of the Spaniards againft Queen Elizabath excited the Iriih to frefh infurrections. The king of Spain, indeed, not only encouraged the natives in thofe infurrections, but actually fent over troops to affift them in driving out the Englifh altogether. This they had well nigh effected; but the Spaniards, upon feeing an army of Irih defeated by an handful of their enemies, were fo much provoked that they furrendered all the places they had made themfelves mafters of, and even offered to affint the Englifh in reducing the rebels; though it was not thought proper to accept of their affiltance. The confequence of this was, that the Irih, abandoned by thefe allies, were unable to carry on the war; and the grand rebel O'Neal of 'Tirowen, or Tirone, after much treachery, evafion, and many pretended fubmiffions, was at laft obliged to fubmit in good earneft. He fell upon his knees before the deputy, and petitioned for mercy with an air and afpect of diftrefs. He fubfcribed his fubmiffion in the moft ample manner and form. He implored the queen's gracious commiferation; and humbly fued to be reftored to his dignity, and the ftate of a fubject, which he had juftly forfeited. He utterly renounced the name of $O^{\prime}$ Neal, which lie had affumed on account of the great veneration in which it was held among the Irih. He abjured all foreign power, and all dependency except on the crown of England; religned all claim to any lands excepting fuch as fhould be conferred upon him by letters patent; promifing at the fame time to affift the ftate in abolifhing all barbarous cuftoms and eftablithing law and civility among his people. The lord deputy, on the part of the queen, promifed a full pardon to him and all his followers; to himfelf the reftoration of his blood and honours, with a new patent for his lands, except fome portions referved for certain chieftans received into favour, and forne for the ufe of Englifh garrifons.

No infurgent now remained in this kingdom who had not obtained or fued for mercy. Many, indeed, were driven by neceffity to the continent, and earned a fubfiflence by fersing in the armies of Spain; and thus a race of Irifh exiles was trained to arnis, filled with a malignant retentment againft the Englifh. Thus the honour of reducing all the enensics of the crown of

England in this ifland, after a continued conteft for Ite'ar.d 440 years, was referved for the arms of Elizabeth. The ghaflinefs of famine and defolation was now fomewhat enlivened by the refloration of tranquillity. Indeed, Exorhita from the mof authentic accounts, the prices of pro-prices of vifions were fo high, that confidering the value of provifinna money at that time, it is furprifing how the inhabi-time. tants could fubfift. From an account of the rates of provifions taken by the mayor of Dublin in $\mathbf{1 6 0 2}$, it appears, That wheat had rifen from 36 s . to gl . the quarter; bariey malt from 10 s. to 43 s. the barrel ; oat-malt from 5 s . to 22 s . the barrel; peafe froni 55. to 40 s. the peck; oats from $3^{\text {s. }} 4$ d. to 20 s . the barrel; beef from 26 s .8 d . to 81 . the carcafe; mutton from 3 s . to 26 s . the carcafe; veal from 10 s . to 295. the carcale; a lamb from 12d. to 6 s. ; a pork from 8s, to 20 s.

Under James I. Ireland began to affume a quite dif- The Irifi ferent appearance. That monarch valued himfelf upon promoting the arts of peace, and made it his fludy to civilize his barbarous Irifh fubjects. By repeated confpiracies and rebellions, a vaft traet of land had efcheated to the crown in fix northern counties, Tyrconnel, now called Donnegal, Tyrone, Derry, Fermanagh, Cavan, and Armagh, amounting to about 500,000 acres; a tract of country covered with woods, where rebels and banditti found a fecure refuge, and which was defined to lie wafte without the timely interpofition of govermment. James refolved to difpofe of thefe lands in fuch a manner as might introduce all the happy confequences of peace and cultivation. He caufed furveys to be taken of the feveral counties where the new fettlements were to be eftablifhed; defcribed particularly the flate of each; pointed out the fituations proper for the erection of towns and caltles; delineated the characters of the Irilh chieftans, the manner in which they fhould be treated, the temper and circumftances of the old inhabitants, the rights of the new purchafers, and the claims of both; together with the impediments to former plantations, and the methods of removing them.

At his inftance it was refolved, that the perfons to whom lands were affigned fhould be either new undertakers from Great Britain, efpecially from Scotland, or fervitors, as they were called; that is, men who had for fome time ferved in Ireland, either in civil or military offices; or old Inifh chieftains or captains. Among the laft were included even thofe Irifis who had engaged in the rebellion of Tirone, and lill harboured their fecret difcoutents. To gain them, if poffible, by favour and lenity, they were treated with particular indulgence. Their under-tenants and fervants were allowed to be of their own religion; and, while all the other planters were obliged to take the oath of allegiance, they were tacitly excepted. The fervitors were allowed to take their tenants either from Iteland or Britain, provided no Popifh recufants were admitted. 'I'he Britifh undertakers were confined to their own countrymen.

In the plantations which had been formerly attempted, the Iriih and Englifh had been mised together, from a fond imagination that the one would have learned civility and indultry from the other. But experience had now difcovered, that this intercourfe ferved only to make the Irim envy the fuperior comforts of

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Ireiard. their Englith neighbours, and to take the advantage of a free accefs to their houfes to teal their goods and plot againft their lives. It was therefore deemed neceflary to plant them in fepasate quarters; and in the choice of thefe fituations, the errors of former times were carefully corrected. The original Englifh adventuers, on their firlt fettement in Ireland, were captivated by the fair appearance of the plain and open difrricts. Here they erected their cafles and habitations; and forced the old matives iato the woods and mountains, their natural fortrelies. There they kepa themfelves unknown, living by the milk of their kine, withoat hubandry or tillage; there they increafed to incre:sible numbers by promifcnous geaeration; and there they held their alemblics, and formed their confpiracies without difcovery. But noss the northern Iriih were placed in the moit open and accelitible parts of the country, where they might lie under the clofe infpection of their neighbours, and be gradually habituated io agricultuze and the mechanic arts. To the Britilh adrenturers were affigned places of the greatelt ftrencth and command; to the fervitors, flations of the greateft danger, and greateft adrantage to the crown: but as this appeared a pecuiar hardhip, they were allowed guards and entertanment, until the country thould be quietly and completely planted.

The experience ef ages had thown the inconvenience of enormous grants to particular lords, attended with fuch privileges as obll rufted the adminititation of civil government : and even in the late reign, favourite undertak:ers had been gratified with fuch portions of land as they were by no ineans able to plant. But, by the prefent fcheme, the lands to be planted were divided in three different proportions; the greateft to conlift of 2000 Englihh acres, the leatt of 1000 , and the middle of 1500 . Ore half of the efoheated lands in each county was aftigned to the fmalieit, the other moiety divided between the other proportions; and the general diftributions being thus afcertained, to prevent all difputes between the undertakers, their fettlements in the refpetive dill ricis were to be determined by lot. Elates wert affigned to all, to be held of them and their heirs. The undertakers of $2=00$ acres were to hold of the king in capile; thofe of 1500 , by knights fervice; thofe of 1000 , in common fuccage. The firt were to build a cafle, and inclofe a litrong cnurt.yard or lazun as it was called, within four years; the fecond, to finith an houfe and bawn within two years; ard the third, to inciole a bawn ; for even this rude fecies of fertification was acceunted mo incontiderable defence ngaintt an Irith e eemy. The intt were to plant unnn their lan ic, within chree years, 43 abie men of Engliha or Scottif birth, to be reduceal to 20 families; to keep a demefne of 600 acres in their oun hands; to bave four fee fa-mers on 120 acres cach; fix leafe-lolders, each (on 100 acres. and on the reff, eight famizes of hulbandmen, artifrers, and cottagers. The others were under the like oblisations proportionablv. Ali were, for fise years after the date of their patent, in refide upon their honds cither in perfon, or by iuch agente as tlonuld be anoroved by the fate, and to lieep a futicient quanity of arms far their defence. The simith and fervion were not to alienate theris. lands to mere lrilla, or whenife ary portions of them to fuch perlons as thould retufe to Vot. XI. Part I.

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take the oat's to government; they werc to lutsh $m$ at Ire'rre?. determined rents, and for no thoter term that 21 yeass or three lives. The houfes of their tenants were to be built after the Eng li,lh failion, and unitod together in towns or villarcs. They had power to ereat manors, to lold courts-baron, and to create tenures. The ofd natives, whole tenures were gra:ted in fec-fimple, to be held in fuccage, were ailowed the like privilerges. They werc eninincd to let their lands at certain rents, and for the like terms as the other undertakers; to take no lrihh exadions from thaiz inferior temants, and to oblige them to forfake their oll Scythian cuftom of wandering with their cattle from place to plice for paHure, or creaghing. as they called it; to divell in towns, and conform to the Englith marner of tillage and hulbandry. An annual rent from all the lands Wds relerved to the crown for every 60 Englith acres, fix Hlillings an eight pence froin the undertakers, tern ihnllings from fervitors, and 13 thillings and four pence from lrilh natives. But for two years they were exenpt from fuch payments, except the natives, who were not fubject to the charge of traifportation. What gave particular credit to this undestaking, was the capical part whice the city of London was perfuaded to take in it. The corporation accepied of large grants in the county of Derry; they engaged to expend L. 20,000 on the plantation, to build the cities of Derry and Colerain, and thepulated for fuch privi-leges as might make their fettlements convenient and refpestable. As a competent force was neceilary to protect this infant plantation, the king, to fupport the charge, inflituted the orde: of baronets, an hereditary dignity, to be conferred on a number not excceding 200; each of whom, on paling his patent, was to pay into the exchequer fuch a fum as would maintuin jo men in Ulter, for three years, at 8d. daily pay.

But fearcely had the lands been alloted to the di:ferent fatentecs, when confiderable portions were reclaimed by the clerdy as their rightful property. Ans fo far had the eitates of the northern bifhoprics been embarrailed, botn by the ufurpations of the Irihh inde, and the claims of patentess, that they fearcely atorded a competent, much leis an hon ourabie, provition for mea of worth and learning, while the flate of the parochial clergy rias fiil more deplorable. Mort of the northern churches had been either defroyad in the late wars or had fatlen to ruin : the benefices were fmail, :and either thamefully kept by the bithops in the way of commendan or Cequeltration; or filled with mininlers as fcindalous as their income. I he wituteled tlock was totally abandoned; and for many years divine fervice had not been ufed in any parith-church of Ulfter, except in cities and great towns. To remedy thefe abufes, and to mate fome proper provilion for the infruction of a people immerfed in lamentable ignorance, the king ordained, that all ccelefiationl lands fhould be reflozed to their refpective fees and churches, and that all lands finould be deemed coleliatical from which bithops had in former times reccived rents or penfions: that compolitions thavld be made with the patentees for the fite of cathedral churches, the refidences of bifhops and di, nitaries, and other churchlands which were not intenaled to be conveyed to them; who were to receive equivalents if they compounded

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treland. freely; or elfe to be deprived of their patents as the king was deceived in his grant, and the poffefions reflored to the church. To provide for the inferior clergy, the bifhops were obliged to refign all their impropriations, and relinnuill the tythes paid them out of parilies, to the relpective incumbents; for which ample recompenfe was made out of the king's lands. Every proportion allotted to undertakers was made a parilh, with a parochial church to each. The incumbents, befides their tythes and duties, had glebe-lands alligned to them of 60,90 , or 120 acres, according to the estent of their parithes. To provide for a lucceftion of worthy paftors, free-fchools were endowed in the principal towns, and confiderable grants of lands conferred on the univerfity of Dublin, which had been re-eflablifhed by Queen Elizabeth, together with th:e adrowfon of fix parochial churches, three of the largeft, and three of the middle proportion in each county.

Such was the general fcheme of this famous northern plantation, fo honourable to the king, and of fuch confequence to the realm of Ireland. Its happy effects were immediately perceived, although the execution by no means correfponded with the original idea. Buildings were flowly erected; Britifh tenants were dificult to be procured in fufficient numbers; the old natives were at hand, offered higher rents, and were received into thofe difricts from which it was intended to exclude them. In this particular, the Londoners were accufed of being notorioufly delinquent. 'They acted entirely by agents; their agents were interelted and indolent, and therefore readily countenanced this dangerous intrufion of the natives: an error of which fufficient caufe was afterwards found to repent. For the prefent, however, a number of loyal and induffrious inhabitants was poured into the northern counties, confiderable improvements made by the planters, and many towns erected. 'To encourage their indufry, and advance his own projeet, the king was pleafed to incorporate feveral of thefe towns, fo that they lad a right of reprefentation in the Irifts parliament.

The only difturbance that now enfued was from the Popifh party, who never could bear to fee the Prote- llant religion eftablinied in preference to their own, while they had power to refin. After mumberlefs incffectual nachinations and complaints, their fury broke out in a terrible maflacre of the new Englifh Cettlers in

* See Brithe year $16 \not 11^{*}$. The affairs of Britain were at that tain, $V^{\circ}: c, 3$ time in fuch confufion, that the rebellion could not be $-106$. quelled in lefs than ten years; during which time the
country was reduced to a mofl deplorable fituation. It recovered again under Cromwell, Charles I1, and the flort reign of James II. On the acceffion of William [11. matters were once more thrown into confufron by an attempt made in favour of the exiled monareh, who came over thither in perfon, and whofe had fuccefs is related under the article Britain, $\mathrm{N}^{n} 309-325$. Since that time, Ireland hath recovered from the miferable fituation to which it was fo long reduced. As yet, however, it is far from being in fuch a llourilhing flate as either South or North Britain. One great obflacle to the improvement of the kingdom is the extreme poverty and opprefion of the common peoplc. The proluce of the kingdom, cither in con or cattle, is not above two-thirds at
molt of what by good cultivation it might yield. Tlie high roads throughout the fouthern and weflern parts are lined with beggars, who live in huts or cabbins withcut chimneys, or any covering capable of defonding the wretched imhabitants from the cold, wind, and rain. "It is a fcandal (fays a judicious traveller, who lately vifited Ireland) to the proprietors of this fertile country, that there is not the greateft plenty of good corn and hay in it; but fome of the belt land in the king's dominions is fufiered to be tom in pieces, and cultivated in the vileft manner, by a fet of abject milerable occupiers; who are abfolutely no better than flaves to the defpicable, lazy, and oppreffive fubordinate landlotds."

Another caufe confifted in the various reflrictions Origino which it had been thought proper to lay upon the Inith the lrik trade; and the conflant and great preference given by difcontel government to the Englith manufacturers, at latt produ- state of $5^{52}$ ced the moft gricvons difcontents and diftreffes. On the the argu part of England it was Cuppofed, that as Ireland hadment for been fubdued by force of arms, the inhabitants ought and agai in every relpect to be fubject to the victorious fate; the I ifin and that the intereft of the Englith ought on all occafions to be corfulted, without regarding the inconveniences which might enfue to the Irith. A very different idca, however, was entertained by the Iriih themlelves, or at leath by the patriotic party among them. 'They rejected all notions of dependence upon the Britilh minilly and parliament ; and though they did not fcruple to acknowledge the king's right of conquef, they mof pofitively denied that the Britifn parliament had any authority whatever over them; and therefore looked upon the reftrictions laid upon their trade as the mon gricrous and intolerable oppreffion.

In the year t'719, according to Mr. Crawford, the Caufe of oppreffion and grievances of Ireland became altogether Sherloci infupportable. A caule relative to an eflate, betwist and Ans Hefler Sherlock and Maurice Annefley, was tried before the court of exchequer in lreland. Here the latter obtained a decree in his favour ; but, on an appeal, the fentence was reverfed by the lords. Annefley appealed from them to the Englift neers; who having reverfed the judgment of thole of lreland, he was put in pofiellion of the fubject in difpute. Sheriock appealed again to the Irifh lords, and the natter became very ferious. It was propofed to the confideration of the judges, Whether by the laws of the land an appeal lies from a decree of the court of exchequer in Ireland to the king in parliamont in Britain? This quellion being determined in the negative, Sherlock was again put in poffeffion of the eftate. A petition was fome time after prefented to the houfe by Alexander Burrowes heriff of Kildare, fetting forth, "That lis predeceffor in office had put Sherlock in pofleflion of the premiffes : that, upon his entering into office, an injunction, agreeable to the order of the Englith peers, ifficed from the exchequer, requining him to reftore Maurice Amefley to the pofleflion of the above-mentioned lands; and that, not daring to act in contradiction to the order of the houle, he was fined. In confequence of this, being afraid left he frould be taken into cultody, he durft not come in to pafs his accounts; and for this he was twixt th fined $\mathbf{1 2 0 0 1 . " ~ H i s ~ c o n d u e t ~ w a s ~ a p p l a u d e d ~ b y ~ t h e ~ I r i f h ~ I r e l a n d ~}$ lords, who commanded the fines impofed upon him to and Eng
reland. be taken off; and in a flort time after dres up a memorial to be prefented to his majefty. In this they fet forth, that having fubmitted to Henry 1I. as their liege lord, they had from him obtained the benefit of Englith law, with many other privileges, particularly that of having a ditind parliament. In confequence of this concelfion, the Englifh had been encouraged to come over and fettle in Ireland, where they were to enjoy the fame privileges as in their own country. They farther infilted, that though the imperial crown of Ireland was annexed to that of Britain, yet being a dillise dominion, and no part of the kingdom of England, none could determine with regard to its affairs, but fuch as were authorifed by its known laws and culloms, or the exprefs confent of the king. It was an invalion of his majefty's prerogative for any court of judicature to take upon them to declare, that he could not by his authority in parliament determine all controverfies betwist his fubjects of this kingdom; or that, when they appealed to his majeify in parliament, they did not bring their caufe before a competent judicature : and they reprefented, that the practice of appeals from the Irilh parliament to the Britifh peers was an ofurped jurifdiction aflumed by the latter; the bad confequences of which they pointed out very fuliy.

This reprefentation being laid before his majelty in parliament, it was refolved, that the barons of exchequer in Ireland had acted with courage and fidelity, according to law, \&c. and an addrefs weas prefented to his majefty, praying him to confer on them fome mark of his royal favour as a recompenfe for the injuries they had fultained from the Irith legillature. This was followed by a bill for the better fecuring the dependency of Ireland upon the crown of Great Britsin. By this it was determined, "That the houfe of lords of Ireland have not, nor of right onght to have, any jurifdiction to judge of, affirm, or reverfe, any judgement, fentence, or decree, given or made in any court within the kingdom; and that all proceedings before the faid houfe of lords, upon any fuch judgment or decree, are utterly null and void to all intents and purpoles whatever." It was allo determined in this bill, that "the king's majelty, by and with the advice and confent of the lords fpiritual and temporal, and commons of Great Britain in parliament affembled, had, hath, and of right ought to have, full power and authority to make laws and flatutes of fufficient force and valizity to bind the people of Ireland."

This bill was looked upon by the Irith to be equivalent to a total annihilation of their libertics; and they were fitll farther exafoerated in the year 1724 , by the patent granted to one Wood an Englihman to coin lialfpence and farthings for the ufe of Ireland. In this affair Wood is faid to have acted very difhonourably; infomuch that a fhilling of the halfpence he made were fcarcely worth a penny. Great quantities of this bafe coin were fent over; and it was ufed not only in change, but accounts were likely to be paid in it, io that dangerons confequences feemed ready to cnfue. The Irifl parliament, in an addrefs to the king, reprefented that they were called upon by their country to lay before his majel! the ill confequences of WYord's patent, and that it was likely to be attended with a diminution of the revenue and the ruin of trade.

The fame was fet forth in an application made to his Ired and. majefty by the prisy council. In dhort, the whole mation feemed to unite their efforts in order to remedy an evil of fuch dangerous tendency, the effects of which al. ready began to be felt.

Among the controverfial pieces which appeared on Dr swifi in this occation, thofe of Dr Sivift were particulatly di-danger on ftinguilhed. His Drapier's letters are to this day held account of in grateful remembrance by his countrymen; but he tuen to was in danger of fuffering deeply in the caufe. He wood. had been at particular pains to explain an argument ufed by the Irilh on this occation, viz. that brafs money, being illegal, could not be forced upon the nation by the king, without exceeding the limits of his prerogative. Hence the oppofite party took incalion to charge the Irifh with a delign of cafting off their dependence on Britain altogether: but Swift having examined the accufation with freedom, pointed out the encronchments made by the Britill parliament on the liberties of Ireland; and aflerted, that any dependence on England, except that of being fubjecis to the fame king, was contrary to the law of reafon, nature, and nations, as well as to the law of the land. This publication was fo difagreeabie to government, that they offered a reward of 3001 . for the difcovery of the anthor; but as nobody could be found who would give him up, the printer was profecuted in his flead: however, he was unanimoufly acquitted by a jury of his countrymen.

The Irith continced to be jealous of their livertice, while the Britih miniftry feemed to watcle every of portunity of encroaching upon them as far as pulfible. A pprchenfions being entertained of a delign upon Ireland by the partifans of the pretender in $17 \frac{1}{5}$, a vote of credit to goverument was paffed by the houle of commons to a conliderable amount. This laid the ITpute foundation of the national debt of that kingdom, which with go. was quickly augmented to feveral hundred thouland vernment the pounds; for difcharge of which a fund had been pro- fund for vided by adminimration. An attempt was made du- piyment of ring the adminiftration of Lord Carteret (who govern- the national ed Ireland till 1730), to veit this fund in the hands of his majefty and of his heirs for ever, redeemable by parliament. This was oppofed by the patriouic party, who infinted, that it was inconfiflent with the public fafety, and unconflitutional, to grant it longer than from felfion to feifion. In 17.31 another atternpt was made to veft the fame in the crown for 21 years; but when the affair came to be debated, the ftrength of both parties was found to be equally balanced. Immediately before the vote, however, Colonel Tottingham having rode poft on the occalion, arrived in the houfe, and determined the queftion againt government.
The behaviour of Lord Chelterfield, who was made governor of Ireland in $\mathbf{7 4 5}$, is highly extolled, on account of his moderation, and the favour be thowed to the liberties of the poople. As the apprehentions of government were then very confiderable, on account of the rebellion which raged in Scotland, his lordibip was advifed to augment the military force of 1reland by 4000 men. Inftead of this, however, he fent four battalions to the duke of Cumberland, and encouraged the volunteer affociations which formed in different parts for the defence of their country. Thefe battalions

## $1 \mathrm{R} \mathrm{E} \quad[340$ ] I R E

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he replaced by a ditional companies to the regineats already on the eftablifhment; by which mans he favel a confiderable cepence to the nation, without augmenting the inluence of the crown. The fupplies alked by him were finall, and raifed in the noft eafy and agreeable manner to the people, expending the money at the fame tine with the utmofl economy. There was cven a faving, which be applied to the ufe of the public. It had been a cultom with many of the lieu-tenant-govemons of Ireland to beitow reverionary grants, in order to purchafe the affiltance of friends in fupport of their meafures. Lord Chelterficid, hovever, being consinced that this practice was prejudicial to the intereft of rise uation, put a ftop to it ; Eut the moft irmarkable part of his adminiltration was, the humanity with which he treated the Roman Catholics. Before his arsival, the Rominh chapels in Dublin had been flut up; their priefts were commanded by proclamation to leave the kingdom; and fuch as difobered had been fubjeated to imprifonment and other pena!ties. Lord Cheiterfield, however, convinced that the affection is to be engaged by gentle ufage, permitted them to exercife thcir religion without difurbance. The accufations brought againf them of forming plots againil goverument were difregarded; and to much was his moderation and uprightnefs in this refpect applauded by all parties, that, during the whole time of his adminittration, the national tranquillity was not once interrupted by the fmallef internal commotion. On his leaving the ifland, his thuft was placed at the public expence in the caftle of Dublit.

Lord Chererfield having left Ircland in the fpring of 1746 , the ifland continued to be governed by lords jullices until the $13^{\text {th }}$ of September, when William earl of Harrington came over with the powers of lord lieutcnant. A conteft in the election of reprefenta-

62 t=iot. tives for the city of Dublin this year called forth the abilities of Mr Charles Lucas, fo much celebrated for his patiotic rirtues. Having fome years before been admitted a member of the common council, he rcfolved to exert himfelf in behalf of the privileges of his fellow-citizens. The powers of this city-corporation, as well as of others, had been changed by authority derived from an act in the time of Charles II. ; and among other imovations, for the purpofe of augmenting the influence of the crown, they deprived the conmons of the power of choofing the city magiftrates. This was now vefted in the board of aldermen; which being fubject in thie exercile of its jurifdiction to the approbation of the privy-council, was confequently dejendent on government. Mr Lucas complained loudly of the ingiry; but as this law could not be altered, he fet himfelf to inquire, whether encroachments, which could not be juflified by law, had not been made on the rights of the citizens? Having fatisfied himfelf, by fearching diligently into ancient records, that his apprehentions were well founded, he publifled his difcoveries, explained the nature of the evidence refuleing from them, and encounaged the people to take the proper fteps for obtaining redrefs.

The con'equence of this was a conteft between the commor sand aldeimen, which lafted two years. The former !lruggled in wain to recover their loll privileges; but the cxertions of Lucas in every flage of the dif-
pate hat rendered him fo refpe:tabie ang ag his coan. trymen, that on the death of Sir James Somerville ha was encuasated to desiaze himfolf a condidate for a feat in parliament. T is being highly agreeable to his wihes, he was eletted accordingly; and dithinguilhed himfelf n:ot oaly by the boldnefs and energy of his fpeeches, but more elpecially by a number of addreffes to his countrymen. In fume of theie he particularly confidered the feveral branches of the conttitution, and pointed out the encroachments of the Britilh legila. ture. Government, alarmed at his boldnefs, letermined to crufh him by the hand of power; for which reaton the mont obnoxious paragraphs were extracted from his works, and made the foundation of a charge before parliament. The commons voted him an enemy to his country; and addrefled the lord-lieutenant for an order to profecute him by the attomey-general. The univerfal efteem in which be was held could not fcreen him from minifterial vengeance : he was driven from Ireland; but laving fent fome years in banihment, he was once more enabled, through the exertions of his friends, to prefent himfelf as a candidate for the city of Dublin. Being again eiected, he continued to dillinguith himfelf by the fame rirtuous principles for which he had been from the beginning fo remarkable, and died wilh the character which he had preferved though life, of the incorruptiole Lucas.

In the year 1753, a remarkable contell took place betwist government and the Irifh parlianeent relative to previous confent. As the taxes for defraying Ilate expences are impofed by the reprefentatives of the acernin expences are fopid by the repreterites of the previous people, it thence naturally follows, that they have a coilfent. right to fuperintend the expenditure of them; and by an infection of the journals of the houfe of commons, it appeared, that from the year 1692 they had exercifed a right of calling for and examining the public accounts. When any furphas remained in the treafury, it was alfo cultomary to difpofe of it by bill for the good of the public. In the year 1749, however, a confiderable fum having remained in the treafury, the difpofal of this money in future became an object to minilty. In ${ }^{1751}$, it was intimated to parliament by the lord lieutenant, the duke of Dorlet, that his majefly would gracioully confent and recommend it to them, that fuch part of the money as then remained in the treafury flould be applied to the redu? ion of the national debt. As this implied a right inherent in his majefty to difpofe of the money as he thought proper, the propolal was accounted an invalion of the privileges of the houfe of commons. No notice was therefore taken of the direction given by Dorfet, but the bill was fent over to England as ufual without any notice taken of his majelty's convent. In England, however, this very material alteration was made, and the word confent introduced into it. The commons at this time did not take any notice of fuch an effential alteration ; but next ycar, on its being repeated, the bill was rejected. Government were now at the utmont pains to defend the meafure they had adopted, and pamphlets were publifhed in which it was juflified on various grounds. The event at laft, however, was, that his majefty by latter took the money which had been the fuibjest of difpute out of the treafury.

In the year 1760 Ireland fuftained an inconfiderable Invafion hollile invalion, the firft that had been experienced in Thurot in

## $1 \mathrm{R} \mathrm{E} \quad\left[\begin{array}{lll}3+1\end{array}\right] \quad 1 \mathrm{RE}$

reland．the kingdom for 70 years．The armament confifted orizinally of five chips；one of 48 guas，two of 36 ， and two of 27 ；having on board 1270 land forces． They were commanded by the celebrated Thurot， whole reputation，as caןtain of a privateer，had advan－ ced him to this dignity．＇lhe fquadron，however，was driven by adverfe witds to Goitcnbursh；where ha． ving continued a few days，they fet fail for tine place of their deflination．Ont their arrival at the coall of Ire－ land，they were obliged to thelter themfelves in Lough Foyle from a violent flom which again overtook them． The wind，however，having thifted，and contimuing to blow tempeltuoully，they were obliged to keep out to fea．Tiro of the hips were thus feparated from the relt by the violence of the florm，and returned to France；but the remaining thrce directed their courfe to the illand of Ilay，where they anchored；and having repaired their damages，iook in a fupply of provifions， and thence failed to Carrick fergus．

In the mean time，an officer belonging to the fmall number of troops at that time in Carrickfergus took poft on a rifing ground，with an advanced party，to oblerve the mutions of the enemy．A lkirmith enfucd betwixt this party and＇Thurot＇s men，until the former， having expended all their ammanition，were obliged to retire into the town．Having in vain attempted to prevent the enemy from taking poffefion of it，the Britih troops fhut themfelves up in the cafte，where they were foon obliged to capitulate，after hasing hill－ ed about 100 of their enemies，with the lofs of only three on their own part．The French having plunder－ ed the town，fet fail on the 26 th of February；and three days after were all taken by Captain Elliot，＇「hurot himfelf being killed in the engagement．

Soon after the acceffion of George 1II．Ireland firit began to be dilturbed by a banditi who llyled them－ felves White Boys；and as thefe were generally of the Rominh perfuation，the prejudices againf that fect broke forth in the uful manner．A plot was alleged to have been formed againll government ；French and Spani．h emiffaries to have been feat over to 1 reland， and actuaily to be employed to anfit in carrsing it in－ to execuion．The real caule of this commotion，ho：r－ ever，was as follows：About the year 1739 the mur－ rain broke out among the horned cattle in the duchy of Holftein，from whence it foon after firead through the other parts of Germany．From Germany it reach－ ed Holland，from whence it was carried over to Eng－ land，where it raged with great violence for a numner of years．The mitigation of the penal latrs againit the papilts about this time encouraged the natives of the lowth of Ireland to turn their tionghts towards agriculare，and the poor began to enjoy the necelliz－ ries of life in a confortable mamer．A fureign de－ mand for beff and buter，however，havinx becume un－ commonls great，by reafon of the cat－le ditanoseryt mentiuned，ground appro；risted to grazius becunc more valuatile than that moploved in tillase．The cottars wete everywhere difpoficticil of their litie pol： Sellons，which the landl－rd＇s ！et to monowhizers who could afford a higher rent．W Wle barovies were now laid open to pa？turage．anite the former in＇tabi－ tants were driven defnerate by wart of lif）al－ice． Numbers of them led to the＇rese cities，or anizasel to foseign countries，while thote who remaned took
fruall fpots of land，about an acre each，at an exorbi－ tant price，where they endeavoured if pofible to pro－ cure the means of prutracting a miferable exillence for themfelves and families．For fome time thefe poos creatures were allowed by the more humane landlords the liberty of commonage ；but afterwards this was taken away，in defpite of juftice and a politive agree－ ment ；at the fame time，the payment of tythes，and the low price of labour，not exceeding the wages in the days of Queen Elizabeth，aggravated the difteffes of the unhappy fufferers beyond meafure．

In fuch a fituation，it is no wonder that illegal me－ thods were purfued in expectation of redrefs．The people，covered with white 仿宕s，affembled in partics at night，turned up the ground，deitroyed bullochs． levelled the inclofures of the commons，and comnitted other acts of violence．Thefe unavailing efforts were conftrued into a plot againft the government；num－ bers of the rioters were apprehended in the counties of Limerick，Cork，and＇Tipperary，and fome of them condemned and executed．In different piaces thefe unhappy wretches，inftead of being losked upon as ob－ jects of compaffion，were profecuted with the utmott feverity．Judge Afton，however，who was fent over to try them，executed his oifice with fuch humanity as did him the higheft honour．A moft extraordinary and afiecting in！lance of this was，that on his return from Dublin，for above ten miles from Clonmell，both fides of the road were lined with men，women，and children；who，as he paifed along，kneeled down and im－ plored the blefing of heaven upon him as their guardian and protector．

In the mean time，the violences of the White Boys continued，notwithftanding that many examples were made．The idea of rebellion was ftill kept up；and， without the fmalleff foundation，gentlemen of the firf rank were publicly charged with being concerned in it，infomuch that fome of them swcre ojliged to enter bail，in order to protect themfelves from injury．The Catholics of Waterford gave in a petition to Lord Hertford，the govemor in 1765 ，in behalt of them． felves and brethren，protefting their loyalty and obe－ dience to government ；but no effectual ftep was taken either to remove or cuen to inveiligate the caule of the diturbances．

Abcut two years afier the appearance of the White of the
6o Oal Poys，a fimilar commotion arofe in Uliter；which，bs ys． however，proceeded in part from a different caufe，and was of much thotter duration．By an att of parlia－ ment，the making and 1 cpairing of highways in Ise－ land was formerly a gricvuus opprefion on the lower ranks of people．An houckeeper who had no hurfe was obliged to work at them fix days in the sear ；and if he had a hore，the labour of both was rea sited for the fame fpace of time．Eefides this oppremis：a，the poor complained that they werc friquently o＇ssined to work at ruads made for the convenience of i. diviluals， and which were of no fervice to the pubiic．Nor were thene the only grievance，of which the in＇u＂gents at thi，time complained：the tyines exacted by the cleroy were faid to be unreafonalic，and the rent of lands was mote than they could bear．I： 1753 ，thereore，he－ ind eviperated by a road ，popofed is be mad－inro ． 1 a part of she counts of Aimash，ire inhtit is moll immediatsly afleced by it rufe ia a body，and docla－

## I R E. [ $\left.3.4^{2}\right] \quad$ I R E

Irclard. red that they would make no more highways of the hiad. As a mark of diftinction, they wore oakbranches in their hats, from which circumftance they called themfelves Oak-Loys. The number of their parlizans foun increafed, and the infurrection became gereeral throngh the counties of Armayl, Tyrone, Derry, and Fermanagh. In a few wecke, however, they sicre difperfed by parties of the military; and the public tranquillity was rellored with the lofs of only two or three lives. Fhe road as?, which had been fo jultly found fault with, was repealed next fefion; and it was determined, that for the future the roads fhould be made and repaired by a tax to be equally affeffed
67 on the lands of the rich and poor.
ofthe Steel Befides thefe, another fet of infurgents called Steel. Boys. loys foon made their appearance, on the following ac-
count. The eftate of an abfentee nobleman happening, to be out of leale, he propoled, infead of an additional rent, to take fines from his tenants. .Many of thofe, who at that time poffetfed his lands, were unable to comply with his terms; while others who could afford to do fo, imfifted upon a greater sent from the immediate tenants than they were able to pay. The ufual confequences of this kind of ouprefion inflantly took place. Numbers being difpofieffed and thrown deltitute, were forced into acts of outrage fimilar to thole already mentioned. One of thele charged with felony was carried to Belfaft, in order to be committed to the county gaol ; but his affociates, provoked by the ufage they had receiverl, determined to relieve him. The defign was eagerly entered into by great numbers all over the country; and feveral thoufands, laving provided themfelves with offenfive weapons, proceeded to Belfalt in order to refcue the prifoners. To prevent this, he was removed to the barracks and put under the guard of a party of foldiers quartered there; but the Steel-boys prefled forward with a determination to accomplifit their purpofe by force, and fome thots were actually exchanged between them and the foldiers. The confequences would undoubtedly have been fatal, had it not been for a phyfician of highly refpectable character, who interpofed at the rifk of his life, and prevailed on thofe concerned to fet the prifoner at liberty. The tumult, however, was not thus quelled. The number of infurgents daily increafed, and the violences committed by them were much greater than thofe of the other two parties. Some were taken and tried at Carrickfergus, but none condemned. It was Cuppofed that the fear of popular refentment had intluenced the judges; for which realon an act was paffed, enjoining the trial of fuch prifoners for the future to be held in counties different from thofe where the crimes were committed. This breach of a fundarental law of the confitution gave fuch offence, that though feveral of the Steel-boys were afterwards taken up and carricd to the caftle of Dublin, no jury would find them guilty. This obmoxious law was therefore repealed; after which fome of the infurgents, leing tried in their refpective counties, were condemned and executed. Thus the commotions were extinguithed; but as no methods were taken to remove the caufe, the continued diftreffes of the people drove many thourands of them into America in a very few years.

In the mean time a very material alteration had ta-
ken place in the conffitution of the kingdom, with regard to the duration of parliaments. At an easly period thefe had continued only for a year ; but afte:wards they were prolonged until the deith of a forereign, unlefs he chofe to difiolve it fooner by an exertion of his prerogative. Thus, fiom the moment of their election, the commoners of Iteland were in a mamer totelly independent of the people and under the influence of the crown ; and goverament foon availed itfelf of this power to bribe a majority to ferve its own purpofes. Various methods sere thought of to remedy this evil; but all proved ineffectual until the year 1768 , when, during the adminiftration of Lord Townfhend, a bill was prepared and fent over to Eng. land, by which it was enacted, that the Irith parliaments thenceforth fhould be held every feven years. It was returned with the addition of one year; and Parliame ever fince the parliaments of this country have been of frelu octennial. During this feffion an attempt was made made oc by the Britith miniftry to infringe the rights of the tenaial. houle of commons in a very material point. A money- An Engl bill, which had not originated in Ireland, was fent money-b over from Britain, but was rejected in a fpirited man-rejected. ner. Its rejection gave great offence to the lord lieutenant, who repeatedly prorogutd them till the year 1771.

The affirs of Ireland began now to draw towards that crifis which effected the late remarkable revolution in favour of the liberties of the people. The paffing of the octennial bill had diminithed, but not taken away, the influence of the crown ; and the fituation of aftairs between Britain and America had inclined minittry to make the moft of this intuence they could. In 1773 Lord Harcourt, at that time governor of Ireland, exerted himfelf fo powerfully in favour of adminiftration, that the voice of oppofition in parliament was almoft entirely filenced. The dithiculties, Difteffe however, under which the whole nation laboured began fate of ), now to be fo feverely felt, that an addrels on the fubject land laid was prefented by the commons to his excellency. In this they told him, that they hoped he would lay befor irtlieu the king the fate of Ireland, reltricted in its commerce from the Ghort-fighted policy of former times, to the great injury of the hingdom, and the adrantage of the rivals, if not of the enemies, of Great Britain. Thefe hardlhips, they faid, were not only impolitic, but unjuft ; and they told his excellency plainly, that they expected to be reftored to fome, if not to all their rights, which alone could jullify them to their conftituents for laying upon them fo many burdens during the courfe of this feffion.

This reprelentation to the lord lieutenant produced no effect ; and Ireland for fome years longer continued to groan under the burden of intolerable refrictions. Thefe had priucipally taken place in the reign of Charles II. At this time it was enacted, that beef or live cattle thould not be exported to England; neither were the commodities of Ireland to be ex ported to the American colonies, nor Anıerican goods to be imported to any port in Ireland without firlt unloading them in fome part of England or Wales. All trade with Afra was excluded by charters granted to particular companies; and reftritions were impofed upon almoft every valuable article of commerce fent to the different ports of Europe. 'Lowards the end of

## $1 \mathrm{R} \mathrm{E} \mathrm{[ } 3+3$ ] I R E

edad King William's reign an abfolute prohibition was laid on the exportation of Irilh wool. This refriction proved difudsamtageous not only to Ircland, but to Great Britain herfelf. The French wese now plentifully fupplicd by fmuggling with Irifh nool ; and not only enabled to furnith woollen ftuffs fufficient for their own confimpt, but even to vie with the Britilh in foreign markets. Other refrictions confpired to augment the mational calamity, but that which was molt fenfibly fult took place in 1776 . "There had hitherio (fays Mir Crawford) been exporied amually to America large quantities of Irilh linens; this very confiderable fource of national advantage was now finat up, under pretence of rendering it more dificult for the enemy to be fupplied with the means of fubfiftence; but in reality, to enable a few rapacious Englifh contractors to fulfil their engagements, an embargo, which continued, was in 1776 laid upon tise exportation of proviions from Ireland, by an unconflituriotal fretch of prerogative. Remittances to England, on various accounts, particularly for the payment of our forces abroad, were more than ufualiy confiderable. Thefe immediate caufes being combined with thofe which were invariable and permanent, produced in this country very calamitous effects. Black.cattle fell very confiderably in their value; notwithfanding that, cuftomers could not be had. The price of wool was reduced in a ftill greater proportion. Rents everywhere fell; nor, in many places, was it pollible to collect them. An univerfal fagnarion of bufinefs enfued. Credit was very materially injured. Farmers were prefled by estreme neceflity, and many of them failed. Numbers of manufacturers were reduced to extreme neceffity, and would have perithed, had they not been fupported by public charity. 'Thofe of every rank and condition were deeply affected by the calamity of the times. Had the fate of the exchequer permitted, grants might have been made to promote indultry, and to alleviate the national diftrefs; but it was exhaufled to a very uncommon degree. Almof every branch of the revenue had failed. From want of money the militia law could not be carried into execution. We could not pay our forces abroad ; and, to enable us to pay thofe at home, there was a neceffity for borrowing $50,00=1$. from England. The money which parliament was forced to raife, it was obliged to borrow at an exorbitant intereft. England, in its prefent fate, was alfected with the wretched condition to which our affairs were reduced. Individuals there, who had eflates in Ireland, were haress of the common calamity ; and the attention of individuals in the Britih parliament was turned to our fituation, who had even no perfonal interelt in this country."

While things were in this replorable fituation, Earl Nuzent, in the year 1578 , undertouk the caufe of the Irih, by moving in parliament, that their affairs ftould he taken into confideration liy a committee of the whole houfe. This motion being agreed to almon unarimoutly, it was followed by feveral others, viz. That the Irifh might be permited to export directly to the Britifh plantations, or to the fettlements on the coafts of Africa, all goods being the produce and manufacture of the hingdom, excepting only wool, or woollen manufuctures, \&ic. 'That all grods, being the
produce of any of :lic Iritifh plantations, of of the Areland. fettiements on the coaft of Africa, tubacco cxcepied, be allowed to be impurted directly fam Ireland to all places, Britain excepted. 'That cotton yarn, the manufacture of lreland, be allowed to be imported into Great Britain. 'Ihat glafs manufactured in Ireland be permitted to be experted to all places, Iritain excepted. Witn refpest to the Irih fail cloth and cordage, it was morcd, that they fhould have the fame privilege as for the cotton yarn.

Thefe motions having pafted unanimoufly, bills for Pet tions a. the relief of lieland were framed upon them according- gainft the ly. The trading and manufacturing towns of Enc- propofed land, however, now took the alarm, and peitions againf the Irifh indulgence were brought forward from many different quarters, and numbers indrueted to oppofe it. In confequence of this a warm contell took place on the fecond reading of the bills. Mr Burke fupported them with all the flrength of his eloquence; and as the minifter feemed to favour them, they were committed; though the violent oppofiton to them ftill continued, which induced many of their friends at that time to defert their caufe.

Though the efforts of thofe who favoured the caiafe New aiof Ireland thus proved unfuccefsful for the prefent, tempt in they renewed their endeavours before the Chrilmas favour of vacation. They noiv urged, that, independent of ail ${ }^{\text {the }} 1$ rifi. claims from juftice and humanity, the relief of Ireland was enforced by neceflity. 'ihe trade with Eritilh America was now loft for ever; and it was indifpenfably requifite to unite the remaining parts of the empire in one common interet and affection. Ireland had hitherto been palfive; but there was danger that, by driving her to extremities, the would catt off the yoke altogether; or, even if this fould not happen, the tyranny of Britain would be of little advantage; as, on the event of a peace, the peop!e would defert a country in which they had experienced fuch oppreflion, and emigrate to America, where they had a greater profpect of liberty. On the other hand, they infilted, that very confiderable advantages mult enfue to Britain by the emancipation of Ireland; and every benefit extended to that country would be returned with accumulated intereft. 'The bufinefs was at laif fummed up in a motion male by Lord Newhaven, in February ig69, that liberty thoald be granted to the Ir:ifh to impont fugars New petifrom the W'eft Irdies. This was carried; but the tions againfe merchants of Glafgow and Manchefter having peti-inen. tioned againft it, it was again loft through the interference of the minifter, who now exerted his inluence ayaint the relief he had formerly declared in favour or. Various other efforts, however, were made in effect the intended purpofe; but nothing more could be obtained than a kind of compromife, by which Lood Gower pledged himfelf, as far as he could anfiees for the conduet of others, that, during the recefs, Come plan hould be fallen upan for aceommalating the affiars of Ireland to the tatisfation of all partics.

In the mean time the affirs of this country ha?ened to a crifis; which forced the Britith miniftry to give that relief fo long folicited, and which they fo often promiled without any intention of performing their promifes. As loing as the affairs of the country were tuder confideration of the Pititilh parliament, the in. habitants

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habitants preferved fome degree of patience ; but, when iley found themfelves deferted by the miniker, their difiontent was inthamed beyond meafure. 'ihe laws he had pafted in their favour, viz. an allowance to plant tobacco, and a bill for encouraging the gicwth of hemp, were confiderd as nook=ry imtead of relief, and it was now refolved to take fuch meafures as flould efferually convince the minifry that it was not their irtereft to tyramize any loneer. With this riem, afiociaticns againft the importation of leritifh commaditics, which bad been entered into in fome places before, now became univerfal ihroughout the kingdom; and fucs riprefumed to oppofe the voice of the peoole in this refpect, hat the mortification to find themferves expoled to puhlic oblonuy aasd cortempe on that account. Thus the Irilh namufahures began to revive; and the people of Eritain fourd themflecs obiced ferionily to take into confideration the relief of that cosner and to lock upon it as a matier very neceflary to their own interen. 'Jo this alfo they were fill mure feriondly difpofed by the military affociations, which had talien place fome time before, and now affumed a molt iormidable appearance. Thele at firit were formed by accidental caafes. The fituation of Britaiy . Cr fome time, had not admitted of any effectual method being taken for the defence of Ireland. lis ants had boen infulted, and the trading mips tal:en by the French and American pritateers; nor was it ar all improbable that an invafion might foon follow. " Ti, - trisinter ( fays Mir Crawford) told us, that the fituaticn of Britain was fuch as rendered her incapable of prasect ing us. The weaknefs of govermment, from the fi,liowing circumfance, was firikingly obvious. The mavor of Belfaft ha:ing tranfmited a memorial to the lori lizutenant, fetting forth the uuprotected fate of the coaft, and requefting a body of the military for its deferice, received for anfwer, that he could not afterd him any other aftilance than half a troop of difmounted holfe and half a company of invalids." In this dilemma, a number of the inhabitants of the torm affociated for the purpofe of felf-defence; and, on the fame principle, a feis volunteer companies were formed in different parts of the kingdom. Thefe chofe their own officers, purchafed their own uniforms and arms, and, with the affitance of perfons properly qualified, afiembled regularly on the parade to acquire a knorsledge in the military art. Their refpectable appeararce, and the zeal they howed in the fervice of their country, foon excited curiofity and attacled r.fpea. Their number increaled every day ; and people of the firf confequence becane ambitious of being cirolled among them. As no forcign enemy appeared, againtt whoni they might excrcife their military prowefs,

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Britain. thefe patriotic bands foon began to turn their thoughts towards a deliserance from domeftic opprefion. No fooner was this idea made known, that it gave new vigour to the fpirit of volunteering; infomuch that, by the end of 1778 , the militay affociations were thought to amount at leaft to $36,000 \mathrm{mcn}$. But, While thus formidable from their numbers, and operly avowing their intention to demand a rcfltutien of their rights from the British miniftry, they profeficd the utmott loyalty and affection to the king; and with regard to fobriety and decent demennor, they were not only" unexceptionable, but exemplary. Infead of ex-
citing difonders ti.emfeives, they reftrained every kind Irelavi of irreculanity, mad e:serted themfelves with undamity and rigour for the exerution of the lav:s.

Theat fuch a body of amed men, acting withont any command or fupport foom governacht, thould be an ubject of apprehenfio: to minillry, is not to be wondered at. In the infancy of their aflocia'ions inded they minh thave been fuppreffed; but motters had been faffera (i) proseed roo far; and, astiney flood at pre[ent, ail stillance was wia. A, tise volunteers could not be contri- 3 , fore attempis were made to bring tiven undier the influence of the csown; but this being They an fourd in puibie, minitiry thousht proper to treat shera lipplied with an arpearane of confiucnce; and, accordingly, with itn orders victe illued for lippring them with 16,000 by the re fland of arins.

Thic IAh ariament, thus encoutaged by the firit The par of the nation, and preaticd by the diticulties arifing mert ad from the dimini ised raiue of their eatates, refolved to king the exert thenfelses in a becoming manmer, in order to reing tor procure releef to their country, At their meeting in October 1779, an addrefs to his majeity was drawn up; in which it was exprefs!y declared, that " it was not by temporary expredients, but by a free trade alune, that Ireland was now to be faved from impending ruin" When this addrefs was carried up to the lotd lieutenan:, the direets of Dublin were lined with volunteers, commanded by the duke of Leint?er, in their arms and uniform. But, though a general expectation of relief was now diffucd, an anxious fear of dilappoistment tilll continued. If the ulual fupply was granted for two years, there was danger of the diftrefles continuing for all that time; and after it was granted, the prorogation of parliament might put a ftop to the expected relief altogether. The people, however, were not now to be tritled with. As the coust-party fhowed an averfion to comply with the popular meatures, a mob rofe in Dublin, who, among Riot in viher acts of violence, pulled down the houfe of the iJublin. atiorney-general, and did their utmoft to compel the members to promife their countenance to the matter in hand. When the point therefore came to be debated, fome efpouled the popular tide from principle, others from neceffity; fo that on the whole a majority appeared in favour of it. A fhort money-bill was yofied and tranfmitted to England; where, though very mortifying to the minifter, it pafled alfo.

On: the meeting of the Britith parliament in Decem- Affais ber, the allairs of lreland were firll taken into confide- it land ration in the houfe of peers. The necelfity of granitng relief to that kingdion was itrongly fet forth by the lord who introduced them. He laid, the Irinh, now confcions of potiefing a force and confequence to which they ha:! hitheris been 做rangers, had refoived to apply it to obtain the advantages of which the niation, by this fpirited exertion, now thowed themfelves worthy. Had they for fome time before hern uratified in leffer matters, they would now have receised with gratitude, what they would, as at ans llood at prefent, confider only as a matter of right. He then moved for a vote of cenfure en his majesty's mmilters ferr their negleet of Ireland. This motion was rejêीci; but Eanl Gower, who had now deferted the caufe of minilly, deciared, that there did not esilt in his mind a fingle doubt that the vote of cenfure was

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Ireland. not well founded. He added, in his own vindication, that carly in the fummer he had promifed that relief fhould be granted to lreland, and had done every thing in his power to keep his word ; but that all his efforts had proved fru:tlefs.

In the houfe of commons the minifler found himfelf fo hard prefled by the arguments of the minority, and the thort money-bill from Ireland, that he was obliged to declare, than in lefs than a week he intended to move for a committee of the whole houfe to take the affairs of Ireland into confideration. On the $13^{\text {th }}$ of Dccember he accordingly brought forwatd his propofrions in favour of this kingdom. The defign of thefe was to repeal the laws prohibiting the exportation of Irihh manufactures made of wool or wool tlocks; to repeal as much of the att of $19^{\text {th }}$ Geo. II. as prohibited the importation of glafs into Ireland, except of Britifh manufaclure, or the exportation of glafs from Ireland; and to permit the Irifh to export and import commodities to and from the Weft Indies and the Britilh fettlements on the coaft of Africa, fubject to fuch regulations and reftrictions as hould be impofed by the Irih parliament.

On thefe propofitions his lordhip made feveral rematks by way of explanation. One object of them, he faid, was to reflore to Ireland the wool export and woollen manufafure. In 1692 , from jealoufy or fome other motive, an addrefs had been prefented by the Englih parliament, recommending a kind of compact between the two kingdoms; the terms of which were, that England flould enjoy the woollen manufacture, and Ireiand the linen, cxclufively. But notwithItanding this agreement, it was certain, that England carried on the linen manufacture to as great extent as Ireland, while at the fame time the former retained the moncpoly of wonllens. The firlt flep taken, in confequence of this agreement, was to lay a heavy duty, equal to a prohibition, upon all wool and woollens exported; and when this act, which was but 2 tem norary one by way of experiment, expired, the Enylih parliament paffed a fimilar one, and made it perpetual; by means of shich and fonie others a total end wav pur to the woollen trade of Ireland.

With regard to the trade of Ireland, his lordhip obferved, that, upon an average of the fix years from 1-66 to $17 / \mathrm{H}^{2}$, the export to 1 reland was fomewhat more than two millions; and, in the fucceeding fix years, from 1772 to $: 778$, about as much more: nearly one-half being Britih manufacture and produce; the other half certified articles, of which this country was the medium of conveyance. The native produce on an average, was fomewhat more than 900,0051 . hut of this only 200,0001 . were woollens. The moollen manufacture of lreland therefore would long continue in a ftate of infancy; and though cloths had heen mąnufactured fufficient for kome confumption, yet it could hardly be expected that Ireland would rival Great Britain at the foreign markets, when, after the experce of land-carriage, freight, irfurance, and factorage, the latter was able to underfell Ireland in her own market on the very fpot, even though aided by the low wages and taxes pa:d in the country.

With regard to the linen, his lordhip obferved, that however profperous it night appear, yn* ${ }^{*}$, it was capable of great improveme:t. The idea of extendVol. XI. Part I.
ing and improving the linen manufactures of Ireland originated from a pamphlet written by Sir William Temple; and this gave rife to the compact which had been referred to. But though this compact was now about to be diffolved, it was his opinion that the bounties on importing lrith linens ought not to be dificon. tinued; becaufe it appeared, that the Britifl bountie had operated as a great encouragement to the Irilh manufactures, at the fame time that the fum appropriated to this purpore amounted to more than 13,0001.
With regard to the diffulution of the compact betwixt England and Ireland, he obferved, that, as a more liberal fpirit had now appeared on both lides of the water, he hoped both kingdoms would be perfectly contented. Ireland would never be able to rival England in the fite woollen fabrics; but allowing the Irith to manufacture their own wool, would put an end to the contraband trade with France; and it ought to be remembered, that whatever was an advantage to Ireland, mult fooner or later be of fingular advantage to Great Britain, and by the propoled regulations in their commercial connetions, the two kingdoms would be put more upon an equality.

With regard to the glass manufacture, his lordihip likewife obferved, that Ireland had been very injurioufly treated. Before the act of 19th Geo. II. they had begun to make fome progrefs in the lower branches of the glafs manufacture; but by that act they were not only prevented from importing any other glafs than what was of Britich manufacture, but alfu from exporting their own glafs, or putting it on a horfe or carriage with a deffgn to be exported. This aft lad been complained of in Ireland as a piece of great injuftice, and it was the intention of his propofition to remove that grievance.

Witn regard to the third propofition, his lordGhip obferved, that allowing Ireland a free trade to the colonies mult be confidered as a favour to that kingdom. Confidering her even as an independent ifate. The could fet up no claim to an intercourfe with the Britih colonies. By every principle of jutice, of the laws of nations, and the cultum of the other European powers who had fettlements and diftant dependenciec, the mother country had an exclufive right to trade with, and to forbid all others from having any inter. courfe with them. Were not this the cafe, what nation under the fun would fpend their blood and treafure in eftabliftivig a colony, and protecting and defending it in its infant ftate, if other nations were afieruards to reap the advantages derived from their labour, laszand, and expence. But though Great Bitt $i^{\circ}$. hat a right to refrain Ireland from trading with her colonies, his lordhip declared himfelf of opinion that it ": ould be proper to allow her to participate of the tratle. This would be the only prudent means of affiusdin, her relief; it would be an uncquivocal prouf of the car deas and fincerity of Great Britain ; and he had not the leaf douht but it would he received as fuch in Ireland. Britain, however, ought not to be a fufferer by her bnamy to Ireland ; hit this would be the cafe, inould the cif:ny trade be thrown open to the latter, without arcompanying it with reftrictions fimilar to thofe which were laid upon to Britifn trode with them. An equal trade muft inciude arr equal thate of duties and $\mathrm{X} \times$
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Irelune. taxes; and this was the only proper ground on which ti.e beisetits expectel by the Inifn nation could be either granted or defired.

Having made fome other obfervations on the propriety of thefe meafures, they were regularly formed into motions, and paffed unanimoully. In Ireland they were received with the utmoft joy aud gratitude by both Joufes of parliament. On the 20th of December the following refolutions were paffed; viz. That the exportation of woollen and other manufactures from Ireland to all foreign places will materially tend to relieve its difteffes, increafe its wealth, promote its profperity, and thereby advance the welfare of Britain, and the common flrength, wealth, and commerce of the Britih empire : that a liberty to trade with the Britill colonies in America and the Weft Indies, and the fettlements on the coalt of Africa, will be productive of very great commercial benefits; will be a molt affectionate mark of the regard and attention of Great Britain to the diftreffes of the kingdom; and will give new vigour to the zeul of his majefty's brave and loyal people of Ireland, to ftand forth in fupport of hi, majeity's perfon and government, and the interelt, the honour, and dignity of the Britilt empire." The fame refulutions were, next day, paffed in the houfe of peers.

The highelt encomiums were now paffed on Lord North. His exertions in favour of Ireland were declared to have been great and noble; he was ftyled "the great advocate of Ireland;" and it was foretuld, that he would be of glorious and immortal memory in that kingdom. But while thefe panegyrics were fo lavifhly made on the minilter, the members in oppofition, in the Britilh parliament, were fpoken of in very indifferent terms. It was faid, that, while they thought the miniller did not mean to go into the bufinefs of Ireland, they called loudly for cenfure againft him for not doing it; but when it was found that he meant ferioully to take their affairs into confideration, they had then bafely feceded, and wholly forfaken the interelt of the kingdom. Thefe cenfures were fo loud, that a member of the Britifh houfe of commons wrote a letter to be communicated to his friends in Ireland,' in which he reprefented, that however politic it might be to compliment the minifter on the prefent occafion, it was neither very wife nor generous in the members of the Irifh parliament to be fo ready in beftowing invectives againtt their old friends in England. With regard to the minifter, it was alleged, that until he was driven to it by the meafures adopted in Ireland, his conduct had been extremely equivocal, dilatory, and indecifive. The minority had been jufly incenfed againt him for having fo grofsly facrificed the honour of the nation and the dignity of parliament as to refufe any fubilantial relief to the Irifh, until their own exertions had made it appear that every thing which could be done for them by the Britifh parliament was not a matter of choice but of neceflity. The minority, it was faid, had earneftly and repeatedly laboured to procure relief for the people of Ireland; and if they had now contented themfelves with a filent acquiefcence in the minifter's propofitions, it was only until they fhould know whether they would be fatisfactory to the people of Ircland; and bocaufe what was now done,
appeared to be more an act of flate than of mere parliamentary deliberation and difcuflion.

I'o the propofitions already mentioned, Lord North added three others. 1. For repealing the prohibition of exporting gold coin from Great Britain to Ireland. in 2. For removing the prohisition to import foreign of Ireland hops into Ireland, and the drawback on the exportation of foreign hops. 3. For enabling his majenty's Irifh fubjects to become members of the Turkey com. pany, and to export woollens in Britifh or Irifh bottoms to the Levant. In fupport of this latt refolution his lordhip urged, that it was neceffary, becaufe the exportation of woollens having been granted to Ireland, the Irifh would naturally expect a thare in the Turkey trade, which, as matters flood, was not poffible, it having hitherto been a received opinion, that no Irifhman could be elected a member of the Turkey company. Notwithftanding all the fatisfaction, however, with which the news of thefe bills were received in Ireland, it was not long before thoughts of a different kind began to take place. It was fuggefted that a free trade could be but of little ufe, it held by a precarious tenure. The repeal of the obnoxious laws was reprelented as an act of neceflity, not of choice, on the part of the Britifh parliament. When that neceffity, therefore, no longer exifted, the fame parliament might recal the benefits it had granted, and again fetter the Irifl trade by reftrictions perhaps more oppreffive than before. To fecure the advantages they now poffefled, it was neceflary that the kingdom fhould enjoy the benefits of a free conftution. For this the people looked up to the volunteer companies; and the idea of having fuch a glorious object in their power, augmented the numbers of thofe which had alfo been increafed from other caufes. They had now received the thats of both houres of parliament, and thus hant fors of the voobtained the fanction of the legiflature. Thus many lunteers i: who had formerly fcrupled to connect themfelves with a lawlefs body, made no fcruple to enter their lifts. Government alfo engaged feveral of their friends in the volunteer caufe. New companies were therefore raifed; but whatever might be the political fentiments of the officers, the private men wore univerfally attached to the popular caufe. The national fpirit was likewife kept up by feveral patriotic publications, particularly the letters figned Owen Roe O'Neil, which in an efpecial manner attracted the public attention; nor was the pulpit backward in contributing its part in the fame caufe.

To give the greater weight to their determinations, They fors the volunteers now began to form themfelves into bat-themfelve talions; and in a very thort time they were all united into baita in this manner, excepting a fmall number of compa- lions. nies, which, from accidental caufes, continued feparate. The newhpapers were filled with refolutions from the feveral corps, declaring Ireland to be an independent kingdom, entitled by reafon, nature, and compact, to clared an all the privileges of a free conftitution; that no power indepenin the world, excepting the king, with the lords and dent kin; commons of Ireland, had or ought to have power to make laws for binding the Irifh; and that, in fupport of thefe rights and privileges, they were determined to. facrifice their lives and property.

Notwithftanding all this zeal, however, the reprefentatives

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Irelard. fentatives of the people in Ireland feem yet to have behaved in a very fupine and carelefs manner, and to have been entirely obedient to the dictates of government. One of the houle of commons declared in the month of April $\mathrm{I}_{7} 80$, that " no power on earth, excepting the king, lords, and commons of Ireland, had a right to make laws to bind the people." "Every member in the houfe (fays Mr Crawford), one excepted, acknowledged the truth of the propofition, either in exprefs terms, or by not oppofing it ; and yet, however aftonilhing it may appear, it was evident, that had the quellion been put, it would have been carried in the negative. The matter was compromifed. The qucltion was not put; and nothing relating to it was entered on the journals.

This inattention, or rather unvillingnefs, of the majority to ferve their country, was more fully manifefted in the cafe of a mutiny bill, which they allowed to be made perpetual in Ireland, though that in England had always been cantiounly paffed only from year to year. After it was paffed, however, fome of the zealous patriots, particularly Mr Grattan, took great pains to fet forth the bad tendency of that act. He obferved, that Itanding armies in the time of peace were contrary to the principles of the conflitution and the fafety of public liberty; they had fubverted the liberty of all nations excepting in thofe cales where their number was fmall, or the power of the fovereign over them limited in fome refpeet or other; but it was in vain to think of fetting bounds to the pover of the chief magiftrate, if the people chofe by a fatute to bind the:nfelves to give them a perpetual and irrefifitible force. The mutiny bill, or martial law methodifed, was directly oppofite to the common law of the land. It fet afide the trial by jury and all the ordinary fleps of law ; eftablifhing in their ftead a fummary proceeding, arbitrary crimes and punihments, a fecret fentence, and fudden execution. The object of this was to bring thofe who were fubject to it to a fate of implicit fubordination, and render the authority of the fovereign abfolute. The people of England, therefore, from a landable jealoufy on all fubjects in which their liberty was concerned, had in the matter of martial law exceeded their ufual caution. In the preamble to the mutiny act, they recited pari of the declaration of right, "that flanding armies and martial law in time of peace, without the confent of parliament, are illegal." Having then flated the purity and fimplicity of their ancient conftitution, and fet forth the great principle of magna charta, they admitted a partial and temporary repeal of it : they admitted an army, and a lave for its regulation, but at the fame time they limited the number of the former, and the duration of both ; confining the exiftence of the troops themfelves, the law that regulated them, and the power that commanded them, to one year. Thus were the flanding forces of England rendered a parliamentary army, and the military rendered effectually fubordinate to the civil magiftrate, becaufe dependent on parliament. Yet the people of England confidered the army, even thus limited, only as a nceeflary evil, and would not admit even of barracks, left the fuldicr thould be fill more alienated from the flate of a fubject ; and in this ffate of alienation have a poft of firength, which would augment the danger arifing from his fituation. When
the parliament of Ireland proceeded to regulate the Irciand. army, therefore, they ought to have adopted the maxims of the Britifh conftitution, as well as the rules of Britifh difcipline. But they had totally departed from the maxims and example of the Engliih, and that in the moll important concern, the government of the fword. They had omitted the preamble which declared the great charter of liberty; they had left the number of forces in the breaft of the king, and under thefe circumflances they had made the bill perpetual.

It is probable that the bulk of the Irill nation did not at firft perceive the dangerous tendency of the bill in queftion. The reprefentations of Mr G -attan and others, however, foon opened their eyes, and a general diffatisfaction took place. This was much increafed by two unfuccefsful attempts in the houfe of commons; one to obtain an act for modifying Poyning's law; and the other for fecuring the independency of the judges. Au univerfal difguft againf the firitlefs conduct of parliament now took place; and the hopes of the people were once more fet on the volunteers.

As it became now fomewhat probable that the?e Reviews of companies might at laft be obliged to affert the rights'he rour. of their countrymen by force of arms, reviews were teinsted. judged nceffary to teach them how to act in larger bodies, and to give them a more exact knowledge of the ufe of arms. Several of thefe reviews took place in the courfe of fummer ${ }^{17} 80$. The fpeitators in general were ftruck with the novelty and grandeur of the fight; the volunteers became more than ever the objects of efteem and admiration, and their numbers increafed accordingly. The reviews in 1781 exceeded thofe of the former year; and the dexterity of the corps who had affociated more early was now obferved to be greater than that of the rel. More than 5000 men were reviewed at Belfaft, whofe performances were fet off to peculiar advantage by the difplay of 13 pieces of cannon. They finowed their alacrity to ferve their country in the field, on a report haying arifen that the kingdom was to be invaded by the combined fleets of France and Spain; and for their fpirited behaviour on this occafion they received a fecond time the thanks of both houfes of parliament.

Such prodigious military preparations could not but alarm the Britifh minifry in the higheft degree; and it was not to be doubted that the Irifi volunteers would come to the fame extremities the Americans had done, unlefs their wifhes were fpeedily complied with. Still, however, it was imagined polfible to fupprefs them, and it rras fuppofed to be the duty of the lord lieutenant to do 10 . It was during the adminititration of the duke of Buckingham that the volunteers had grown into fuch confequence; he was therefore recalled, and the earl of Carlifle appointed in his place. Though it was impofible for the new governor to fup- Shameful prefs the fpirit of the nation, he found it no difficult candurt of matter to obtain a majority in parliament. Thus every the Irih redrefs was for the prefent effectually denied. Neither the modification of Poyning's law, nor the repeal of the obnoxious parts of the mutiny bill, could be obtained. The rolunteers, exafperated at this behaviour, refolved at once to fhow that they were refolved to do themfelves juffice, and werc confcious that they had power to do fo. At a mecting of the officers of the fouthern battalion of the Armagh regiment, com-
manded by the earl of Charlemont, the following refo. lutions were entered into December 28.1781. 1. That the moft vigorous and effectual methods ouglit to be pulfued for rooting corroption out from the legillative kody. 2. For this purpofe a meeting of delegates from all the volunteer affociations was neceffary; and Dungamoon, as the mofl central town in the province of Ulfer, feemed to be the moft proper for holding fuch a meeting. 3. That as many and latting advantages might attend the holding fuch a meeting before the pretent lelfion of parliament was much farther advanced, the $15^{\text {th }}$ of February next fhould be appointed for it.

Thefe refolutions proved highly offenfive to the friends of government, and every method was taken to dilcourage it. On the appointed day, however, the reprefentatives of $1+3$ volunteer corps attended at Dungamon; and the refults of their deliberation were as follows. 1. It having been alferted, that volunteers, as luch, cannot with propriety debate or publith their opinions on political lubjects, or on the conduct of parliament, or public men, it was refolved unanimoufly, that a citizen, by learning the ufe of arms, does not abandon any of his civil rights. 2. That a claim from any body of men, other than the hing, lords, and commons of Ireland, to make laws to bind the people, is illegal, uncorfitutional, and a grievance. 3. Refolved, with oue diffenting voice only, that the powers exercifed ty the privy council of both kingdoms, under colour or pretence of the law of Poyning, are uncon14itutional and a grievance. 4. Refolved unanimoully, that the ports of this country are by right open to all foreign countries not at war with the king; and that any burden thereupon, or obftruction thereto, excepting only by the parliament of Ireland, are uncenfitutional and a grievance. 5. Refolved, with one diffenting voice only, that a mutiny bill, not limited in puint of duration from feffion to feffion, is unconftiiutional and a grievance. 6. Refolved unanimoully, that the independence of judges is equally effential to the impartial adminiftration of juftice in Ireland as in England, and that the refufal or delay of this right is in itfelf unconftitutional and a grievance. 7. Refolved, with II difienting voices only, that it is the decided and unalterable determination of the volunteer companies to feek a redrefs of thefe grievances; and they pledged themfelves to their country, and to each other, as freeholders, fellow-citizens, and men of honour, that they would, at every enfuing election, fupport only thofe who had fupported them, and would liupport them thereil, and that they would ufe all conflitutional means to make fuch purfuit of redrefs fecedy and effectual. 8. Refolved, with only one diffenting voice, that the minority in parliament, who had fupported thofe conilitutional rights, are entitled to the moft grateful thanks of the volunteer comparies, and that an addrefs to the purpofe be figned by the chairman, and publifhed with the efolutions of the prefent meeting. 9. Refolvcd unanir oully, that four members from each county of the 1 rovince of UlCer, eleven to be a quorum, be appointed a committee till the next general meeting, to act for the volunteer eorls, and to call general meetings of the province as accafion requires. 10 . The committee being appointed, and the time of general meetings, and fome other
affairs of a fimilar nature fettled, it was refoivel unanimoufly, that the count of Portugal having unjuliy refuled entry to certan lrilh commodities, the delegates would not confume any w, we of the growth of Portugal, and that they would ule all their induence to plevent the wie of the faid wine, exernting what was then in the kingdom, until fuch wne ... $\cdots \cdot h_{1}$ exports thould be received in the kirgdon of iorthgal. 11. Relulved, with only two dnicai its voice:, that they hold the right of private julgment in matters of religion equally facred in others as in themfelves; and that they rejoiced in the relaxation of the penal laws againf the Papilts, as a mealure fraught with the happielt confequences to the union and profperity of the inhabitants of lreland.

While thefe proceedings took place at Dungannon, miniterit the minittry carried all before them in parliament. In a debate concerning the exclulive legillative privileges vails exce of Ireland, a law member, fpeaking of the arbitrary fively in acts of England, afferted, that "power conlituted parliames right;" and a motion that the commons thould be declared the reprefentatives of the people was carried in the negative. Thefe fcandalous proccedings could not but haften the ruin of their caufe. The refolutions entered into at the Dungannon meeting were received throughout the kingdom with the utmoft applaufe. A few days after, Mr Grattan, whofe patriotifm has been Mr ${ }^{102}$ already taken notice of, moved in the houle of commons tan's mo. for a long and fpirited addrefs to his majefty, declaring tion for al the rights of the kingdom, and afferting the principle addrefs, de which now began to prevail, that Ireland could legaily andepenbe bound by no power but that of the king, lords, and dency of commons of the country; though the Britill parliament Ircland had aflumed fuch a power. This motion was at prefeat rejected. rejected by a large majority; but their eyes were foon enlightened by the volunteers.

Thefe having now appointed their committees of correfpondence, were enabled to communicate their fentiments to one another with the utmoft facility and quicknefs. An affociation was formed in the name of the nobility, reprefentatives, freeholders, and inhabi- of the votants of the county of Armagh, wherein they fet forth lunteers 1 the necelfity of declaring their fentiments openly re-that purfpecing the fundamental and undoubted rights of the pofe. nation. They declared, that, in every fituation in life, and with all the means in their power, they would maintain the conftitutional right of the kingdom to be governed only by the king and parliament of Ireland; and that they would, in every inftance, uniformly and ftrenuoufly oppofe the execution of any flatutes, excepting fuch as derived their authority from the parliament juft mentioned-; and they pledged themfelves, in the ufual manner, to fopport what they now declared with their lives and fortune.

This declaration was quickly adopted by all the other counties, and fimilar fentiments became univerfally avowed throughout the kingdom. 'The change in the Britifh miniftry in the fpring of 1782 facilitated the wilhes of the people. The duke of Portland, who Favoura came over as lord lieutcnant in April that year, fent a meffage moft welcome meffage to parliamont. He informed fent top them, that " his majefty, being concerned to find that the duk, difcontents and jealoufies were prevailing among his of Portloyal fubjects in Ireland, upon matters of great weight land. and importance, he recommended it to parliament to
land take the fane into their moll ferious confideration, in order to fuch a final adjuitment as might give mutual fatisfaction to his kingdoms of Great Britain and Ireland.'"

Mr Grattan, whofe patriotic efforts had never been flackened, now ventured to propofe a fecond time in parliament the addrefs which had been rejected before. On the $16 \mathrm{th}_{1}$ of April he began a Speech to this purpofe with a panegyric on the voluntecrs, and the late conduct of the people. The Irih, he faid, were no longer a divided colony, but an united land, manifetting itfelf to the reft of the world in fignal initances of glory. In the reft of Europe the ancient fuirit was expired; liberty was yielded, or empire lof; nations were living upon the memory of palt glory, or under the care of mercenary armies. In Ireland, however, the people by departing from the example of other nations, had become an example to them. Liberty, in former times and in other nations, was recovered by the quick feelings and rapid impulfe of the populace. But in Ireland, at the prefent period, it was recovered by an act of the whole nation reafoning for tbree years on its fituation, and then refcuing itfelf by a fettled fenfe of right pervading the land. The meeting of the delegates at Dungannon was an original meafure; and, like all of that kind, continued to be matter of furprife, until at laft it became matter of admiration. Great meafurcs, fuch as the meeting of the Englih at Runny Mead, and of the Irih at Dungannon, were not the confequences of precedent, but carried in them?elves both precedent and principle; and the public caufe in both inflances would infallibly have been loft had it been trufted to parliament. The meeting at Dungannon had refolved, that the claim of the Britih parliament was illegal ; and this was a confitutional declaration. The Irifh volunteers were affociated for the prefervation of the law's, but the conduct of the Britith parliament fubrerted all law. England, however, had no reafon to fear the Irifh volunteers; they would facrifice their lives in her caufe. The two nations formed a general confederacy. 'The perpetual annexation of the crown was a great bond, but magna charta was a greater. It would be eafy for Ireland to find a king; but it would be impoffible to find a nation who would communicate to them fuch a charter as magna charta; and it was this which made their natural connection with England. The Irifh nation were too high in pride, character, and power, to fuffer any other nation to make their laws. England had indeed brought forward the queltion, not only by making laws for Ireland the preceding fellion, but by enabling his majefty to repeal all the laws which England had made for America. Had the confented to repeal the declaratory law againf America? and would the refufe to repeal that againlt lreland? The Irifh nation were incapable of fubmitting to fuch a dittinction.

Mr Grattan now found his eloquence much more powerful than formerly. The motion which, during this very feffion, had been rejected by a great majority, was now agreed to after a Mhort debate, and the adJrefs to his majefty prepared accordingly. In this, after thanking his majelty for his gracious meflare, and declaring their attachment to his perfon and government, they aflured him; that the fubjects of Ireland are a free
people; that the crown of Ireland is an imperial Ireiand crown, infeparably annexed to that of Britain, on which connection the interefts and happinefs of both nations effentially depend; but the kingdom of Ireland is diflinct, with a parliament of its own: that there is no body of men competent to make laws to bind Ireland, except the king, lords, and commons thereof, nor any other parliament that hath any power or authonity of any fort whatfoever, in this country, except the parliament of Ireland. They affured his majenty, that they humbly conceive, that in this right the very efferce of their liberties did exilt; a right which they, on the part of all Ireland, do claim as their birthright, and which they cannot yield but with their lives. They affured his majelty, that they had feen with concern certain claims advanced by the parliament of Great Britain, in an act intitled, "For the better fecuring the dependency of Ireland;" an act containing matter entirely irreconcileable to the fundamental rights of the nation. They informed his majelly, that they conceived this act, and the claims it adranced, to be the great and principal caule of the difcontents and jealoufies in the kingdom. They affured him, that his commons did moft fincercly with, that all the bills which become law in Ireland, fhould receive the approbation of his majefty under the feal of Great Britain; but yet, that they conceived the practice of fupprefling their bills in the council of Ireland, or altering them anywhere, to be another juft caufe of difcoutent and jealoufy. They further affured his majefty, that an act intitled, "For the better accommodation of his majelty's forces," being unlimited in duration, and defective in fome other circumflances, was another juft caufe of jealouly and difcontent. Thefe, tbe principal caufes of jealoufies and difcontent in the kingdom, they had fubmitted to his majelty, in humble expectation of redrels : and they concluded with an affurance, that they were more confident in the hope oi obtaining. redrefs, as the people of Ireland had been, and were, not more difpofed to thare the freedom of England, than to fupport her in her difficulties, and to farare her fate.

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To this remarkable addrefs a moit gracious anfwer It is gracio was given. In a few days the lord lieutenant made a ounly refpeech to both houfes; in which he intormed tbem, ceived. that, by the magnanimity of the king, and wifdom of the Britifh parliament, he was enabled to affure them, that immediate attention bad becn paid to their reprefentations, and that the legiflature os Britain had concurred in a refolution to remove the caufes of their dif. contents, and were united in a defire to gratify every with expreffed in the late addrefs to the throne; and that, in the mean time, his majefly was gracioully dif. pofed to give his royal affent to ads to prevent the fuppreffing of bills in the Irifh privy-councit; and to limit the mutiny-bill to the term of two years.

The joy which now diffufed iifelf all over the king- Extreme dom was extreme. The warment addrefles were pre-joy of the fented not only to his majelly but to the lord licute-Irill. nant. The commons inflantly voted 150,0201 . to his majelty, to enable him to raife 20,000 men for the navy; and foon after, 5000 men were likewife voted from the Irih eftablifhment. The voluntcers became in a peculiar manner the objects of gratitude and univerfal panegyric; but nore was placed i:ı fo confpicu-

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finallu fettled under the almini ftration of Lord I'em ple.
ous a light as $\operatorname{Mr}$ Grattan. Addrefles of thanks flowed in upon him from all quarters; and the commons addrefled his majelty to give him 30,0001 . as a recompenfe of his fervices; for which they promiled to make provifion.

This roquell was alfo complied with; but ftill the jealoufies of the Irilh were not completely eradicated. As the intended repeal of the declaratory act was found to be fimple, without any claufe exprefsly relinquifing the claim of right, feveral members of the houfe of commons were of opinion, that the liberties of Ireland were not yet thoroughly fecured. The majority, however, were of opinion, that the fimple repeal of the obnoxious act was fufficient ; but many of the nation at large dif. fered in fentiments. Mr Flood, a member of the houfe, and a zealous patriot, now took the lead in this matter ; while Mr Grattan loft much of his popularity by efpoufing the contrary opinion. The matter, however, was to appearance finally fettled by the volunteers, who declared themfelves on Mr Grattan's fide. Still fome murmurings were heard; and it muft be owned, that even yet the conduct of Britain appeared equivocal. An Englifh law was paffed, permitting importation from one of the Weft India illands to all his majenty's dominions; and of courfe including Ireland, though the trade of the latter had already been declared abfolutely free. This was looked upon in a very unfavourable light. Great offence was alfo taken at a member of the Englifh houfe of lords for a fpeech in parliament, in which he afferted, that Great Britain had a right to bind Ireland in matters of an external nature; and propofed to bring in a bill for that purpofe. The pubJic difcontent was alfo greatly inflamed by fome circumflances relating to this bill, which were particularly obnoxious. Lord Beauchamp, in a letter addreffed to one of the volunteer corps, was at pains to thow that the fecurity of the legiflative privileges obtained from the parliament of Britain was infufficient. The lawyers corps, allo, who took the queltion into confideration, were of the fame opinion; but the circumfance which gave the greateft offence was, that the chief juftice in the Englifh court of king's bench gave judgement in an Irifh caufe directly contrary to a law which had limited all fuch judgements to the firft of June. All thefe reafons of difcontent, however, were removed on the death of the marquis of Rocking. ham, and the, appointment of the new miniftry who fucceeded him. Lord Temple came over to Ireland, and his brother 201 fecretary Mr Grenville went to England, where he made fuch reprefentations of the difcontents which prevailed concerning the infufficiency of the declaratory act, that Mr Townihend, one of the fecretaries of flate, moved in the houfe of commons for leave to bring in a bill to remove from the minds of the people of Ireland all doubts refpecting their legiflative and judicial privileges. This bill contained, in the fulleft and moft exprefs terms, a relinquifhment on the part of the Britifl legiflature of all claims of a right to interfere with the judgment of the Irith courts, or to make laws to bind lreland in time to come. Thus the coniell was at laft ended; and ever fince this kingdom has contimued to flourifh, and to enjoy the bleflings of tranquillity and peace, free from every hind of reflriction cither on its commerce or manufactures, till the comnencement of the rebcllion in 1798.

Some time after the above tranfaction, the commercial propofitions of Mr Pitt were rejected by both houfes of the Itifl parliament; and in the latter end of the year 1788 , very warm debates took place on the regency bill ; but the fudden and umexpected recovery of his majelly put a period to this political contelt. The queftion refpecting the emancipation of the Roman Catholics was much agitated about this period, and the miniftry rendered themfelves ftill more popular by appointing Earl Fitzwilliam to fucceed the marquis of Buckingham as lord lieutenant of Ireland. It is to be prefumed, however, that the joy of the people on this occafion chiefly originated from the hope, that the bill for the Catholic emancipation, brought in by Mr Grattan on the 12 th of February 1795 , and another on the $14^{\text {th }}$ of the fame month, for the diminution of the national expenditure, would be allowed to pafs. The miniftry, however, feemed to reprobate thefe meafures, "our in confequence of which Earl Fitzwiliam was recalled, Catholi and Lord Camden appointed his fucceffor, which was fo repugnant to the feelings of the people, that the day of Lord Fitzwillian's departure ( 25 th March) was obferved at Dublin as a day of general mourning. The bill in fasour of Catholic emancipation was rejected on the 4 th of May, by a majority of 71, which had a powerful tendency to increafe the popular difcontent. Of this difaffection the rulers of France determined to avail themfelves, and fitted out a Heet for the invafion French of Ireland, confifting of 18 fail of the line, 13 frigates, tempt $u$ and 12 floops, with tranfports, and 25,000 men, which and in were under the command of General Hoche. This formidable armament failed from Breft on the loth of December 1796 ; but fo tempeftuous was the weather that the fleet was difperfed; the fquadron under the command of Admiral Bouret returned to Breft on the 31 ft after reaching Bantry bay; a thip of the line and two frigates perifhed at fea; another French frigate was taken by the Britilh, and a French Mip of the line efcaped, after fighting for fome time againlt two Britifh Ihips.

It was no doubt a fortunate circumflance for Britain, yet the internal anarchy and confufion of Ireland were itill rapidly gaining ground. The members of the fociety of United Irihmen, inftituted in the year 1791, profeffed to have no other objects in view than a reform in parliament, and that the people of every religious profeftion thould enjoy an equality of civil rights; but it was afterwards undeniably proved, that they ansioufly wihed to bring about a revolution, and eftablifli a republican government, fimilar to that which then deluged France with blood. The members fivore "to obtain a complete reform in the legillature, on the principles of civil, political, and religious liberty; and never to inform, or give evidence, in any court, againft any member of that or fimilar focieties." So plaufible were thefe objects, that their numbers increafed with allonilhing rapidity, and their divificas and fubdivifions were foon extended all over the kingdom. Many loyal fubjects, afraid of the extenfion of Roman Catholic privileges, alfo formed affociations under the titie of Orangemen, in order to deprive Papifts of arms; and they in their turn aflumed the name of defenders: in confequence of which the moft terrible outrages were committed on both fides. The United Irifhmen fill continned the molt numerous; but the
firt direî communication between them and the French dire?ury took place in 1795 through the medium of one Mr Levins; and in the following year the invafion, already mentioned, was concerted on the frontiers of France, between Lord Fitzgerald, Arthur O'Connor, and General Hoche, the failure of which did not feen to intincidate the rebels. Arms continued to be diftributed with fecrecy among the members, and a correfpondence with the French directory was Atill preferved.

As proceedings of fuch a nature were juttly alarming to the Britih government, the Infurvection AEZ was paifed in March 1796, by which magillrates were authorized to place the people under martial law; a meafure no doubt juftifable from the alarming nature of the times; but it certainly had the effect of increafing the difcontents, and was alfo productive of numerous acts of opprellion. Yet fuch as were connected with the United Iifhmen were guilty of actions equally atrocious. So fully convinced were they of ultimate fuccefs, that in December 1797 an executive directory was nominated for the govermment of the Irifo republic, confifing of Lord Edward Fitzgerald, Mr A. O'Connor, Mr Oliver Bond, Dr M‘Niven, and Counfellor Emmet. With fuch confummate art was their confpiracy planned, and with fuch profound fecrecy was it conducted, that there is great reafon to believe it might have been carried into effect, had not Mr Reynolds made a difcovery in March 1798 , which led to the apprehenfion of the principal ringleaders, and Fitzgerald received a mortal wound while refinting the of ficers. This reverfe of fortune did not prevent the nomination of another directory; but its fate was fimilar to the former, and information was given againft them by a Captain Armitrong, who had entered into their fociety for the purpofe of betraying them. John and Henry Sheares, two of the directors, were apprehended on the 2 ut of May ${ }^{1} 798$; Mr Neilfon and a number more of the fame defcription on the 23 d , and the metropolis was proclaimed in a flate of infurrection. The guards were made three times ftronger than before; and the whole city might be confidered as forming but one garrifon. Dublin was thus delivered from the dreadful havock and devaftation premeditated by the rebels; but in the provinces of Leinfter and Connaught, as well as in various other places, they appeared in formidetie bodies, intercepted the mail coaches, and thus gave the fignal for a general infurrection.

In their attack upon the town of Naas, on the 24 th of May, they experienced a fignal defeat fron Lord Gosford at the head of the Armagh militia, and left 400 men dead on the field. General Dundas defeated a confiderable body of the rebels near Kilcuilen, and on the $25^{\circ} \mathrm{h}$ Lord Roden vanquifhed another body of them about 400 ftrong, the leaders of whom were taken and executed, On the 26th they fhared the fame fate at Tallagh hill, when 350 of them were flain. They attacked the town of Carlow to the number of 1000 , where they were defeated with the lofs of 400 men; but as the inhabitants fired upon the king's troops, one half of the town was burnt in revenge. The rebels made an attack upon hildare on the 29th, but the gallant conduct of Sir J. Duff and the troops under his command, made them foon retire with the lofs of 200 men. In Wicklow and Wexford, however,
the rebellion raged with the muft decadiu] fury; in the lucisuct. latter of which they were computed to have 15050 men on the 25 th of May, when they furrounded and cut to pieces the North l'urk militia at Oulard, commanded by Colonel loot and Major Lombard. 'Ihey attacked and carried the town of Ennifcorthy, but with the lofs of 400 men , and a party of the Meath militia feli into their hands on the 2gth. The town of Wexford fusrendered to them next day, when Harrey, Fitzgerald, and Colclough, who had been inade prifoners ont the 26 th for treafon, were inftantly fet at liberty, and Harvey was appointed their commander-in-chief. Having left a garriton in the town, the rebel cormmander march. ed on the 5 th of June to attack New Refs, where Ma-jor-general Johnfton obilimately defended the town for feveral hours, and at laft forced the enemy to retreat with confiderable lofs. . This defeat fo exafperated the rebels, that they butchered 105 royalifts whom they found in the jail of Wexford. Their attempt upon Gorey was ineffectual, as well as that upon Newton Barry on the 3 d of June, where Colonel Lettrange defeated them with the lofs of 500 men killed in the action. On the following day, however, the tide of fortune feerned to turn in their favour near Slievebay mountain, where the royal forces under Colonel Wai. pole were defeated with the lofs of 54 men, and the commander himfelf was dain in the action. Encouraged by this fuccefs, they refolved to make an attack upon Arklow; but the grape-thot of General Needham made terrible havock among them; yet their ftrong pofition near Vinegar hill was frill maintained by their main body, from which it was found impracticable to dillodge them before the 211 t, when they were nearly furrounded by General Lake, with his troops in five columns, led into action by Generals Dundas, Johnfon, Eultace, Duff, and Loftus. The carnage was terrible, as the rebels defended themfelves with great obflinacy for an hour and a half, and loll 13 pieces of cannon. The town of Wexford furrendered next day, and on the 26 th Harvey and Colclough were apprehended on one of the Saltee iflands, who were tried and executed, together with Keughe, the rebel governor of Wexford.

The details of carnage and bloodfhed are by no means agrecable to the feelings of humanity, yet a regard to hiftorical truth obliges us to give them, but in as concife a manner as we poffibly can. The rebels gained pofieffion of Antrim about the 7 th of June, but were foon obliged to abandon it by the exertions of General Nugent. Still, however, a [pirit of infurrection continued formidable in the counties of Antrim and Down; but the rebels were defeated on the 12 th at Ballynahinuch, where they loit upwards of 400 men, and the royal forces only 20 in killed and wounded. Munro, their general, was taken prifoner and executed. It is to be lamented that both rebels and royalifts feemed, during this unnatural conteft, to be fuch utter frangers to every principle of humanity, that fome have deemed it a very difficult matter to determinc which party was the worft, although the bilhop of Killala, who fuffered much for his attachment to government, gives it againft the latter. This, however, was deftined to be terminated in a very fhort time, for Marquis Cornwallis was now appointed lord-lieutenant of Ireland, and arrived in Dublin on the 2oth of June.

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The firlt meafure, adopted by his excellency, foon after tis arrival, had at more powerful effect in cruhing the rebellion than all the rigorous meafures furmerly parfued. On the 7 th of July he made an offer of his majelty's pardon to all who thould furrender before a certain day. The confequence of this proclanation ras, that numbers retumed to their allegiance, and delisered up all the arms in their poffelion. Some, however, of the molt notorious offenders were tried by a fpecial commiffion, condemned, and executed, fuch as 3. and H. Sheares, M'Cann, Byrne, and others. Mr Oliver Bond, who was condemnect on the 23 d of July, had powerful intereft made for him in order to fave his life on account of his refpectable connexions. The fentence of death was to be changed into banilhment, on condition he would tell all he knew refpecting the sebellion. He was accordingly pardoned, but his death happened toon after. Some of the molt defperate of the rebels flill continued $t>$ lurk about the mountains of Wicklow and Weesford, notwithtanding the proclamation of the amnefty, but thefe were gradually reduced.

It was the general opinion about this time, that the rebellion was completely ended, when the people were
so fuddenly and unexpectedly alarmed by the landing of A body of a body of French troops under General Humbert. Prench This happened at Killala, on the 22 d of Auguft 1798. lands in Their number being at firft very much exaggerated, Lord Cornwallis defigned to march againtt them in perfors at the head of the army. In the mean time Humbert marched on towards Caflebar, where he engaged the Britih forces under General Lake, obliging them to retreat with the lofs of fix pieces of cannon, and a confiderable number of men. Lord Cornwallis came up with the French neat Caflebar, and forced them to retreat; and Gcneral Humbert having been joined by a number of the rebels, he made a circuitous march in order to favour their efcape, in conSequence of which the greater part of them got away in Cafety. Ninety-three of thern and three of their generals were taken prifoners. The French having furlendered, the public were aftonifhed to find that this tremendous army amounted to no more than 844 men!

On the 16th of September a French bris made its appearance off the ille of Rutland, on the north-weft coaft of Donegal, where the crevv landed, together with General Rey and the celebrated Napfer Tandy, futtaining the rank of a French seneral of brigade. On inquiring after Humbert, they feemed aftonithed at being informed that he and his ment were pritoners. In the end of September a hip of the line and eisht frigates, with troops and ammunition for Ireland, failed from Bref harbour; but the coall was too wel! defend. ed by the fquadron under the command of Sir J. B. Warren, for fuch an armanent to be ficceffful. The thip of the line, called the Hoche, fruck after a gallant defence; and the whole fquadron was captured, with the exception of two frigates. This defeat was a deathblow to the hopes of the French as well as to the Iriih rebcls. The celebrated Theobald Wolfe Tone was found among the prifoners in the Hoche, who was confidered as the ablef man at Paris from Ireland, in refpect of negociating. He was tried by a court martial at Dublin, where it was allowed that he made a very znly defence, ncither denying nor excufing his crime,
but refting the merits of his plea on the idea of his being, as he thou rht, a citizen of France, and an officer in the fervice of that country. His arguments, however, were ineffestual, and the court would rot even grant his rerucit to be fhot rather than hanged, in confequence of which he committed fuicide in prifon. The fuirit of rebellion might be faid to die with this wonderful man; for the few rebels who thil! continued with General Holt, the laft of the rebel chiefs, gradually laid down their arms, as did Holt timfelf, who was banilhed for life.

At the termination of this horrible conteft, it was computed that not fewer than 30,000 perfons loft their lives, independent of many thoufands who were wounded or tranfoorted.

The only remaining event of any insportance connected with the hifory of this country, is its union with Great Britain. This event had been long in contemplation, but it was firf announced in ti:e Britifh houfe of commons on the 22 d of January 1799, by a Union 120 meffoge from his majelty, conceived in thefe words: Ireland " George R. His majefty is perfuadec, that the unremitting induftry with which our enemies pericvere in their avowed defign of effecting the feparation of Ireland from this country, cannot fail to engage the particular attention of parliament; and his majefy recommends it to this houfe, to confider of the moft cffectual means of finally defeating this defign, by difpoling the parliaments of both kingdoms, to provide in the mamer which they lisall judge moft expedient, for fettling fuch a complete and final adjuftment, as may beft tend to improve and perpetuate a connexion effential for their common fecurity, and confolidate the frength, power, and refources of the Britilh empire." On the 3 Ift the meafure was taken into confide:ation, when Mr Pitt moved feven refolutions as the bafis of it, which were oppofed ly $\operatorname{MIr}$ Sheridan, who gave it as his decided opinion, that the fair and frce approbation of parliament could never be afcertained, while any of its members were under guvernment influence, on which account he oppofed the union; as did alfo Meffirs Grey, Tierncy, Jones, Sir F. Burdett, Gcneral Fitzpatrick, Dr Latwience and others. It alfo met with confiderable oppobition in the houfe of peers, and in the Irifh parlinment the oppofition was formidable. In the addref: to his majefty, the paragraph recommending an union was voted to be expunged, by a majority of ini againft 106 , in confequence of which the city of Dublin was twice illuminated. In the houfe of peers, however, a majority appeared in favour of the union; and when it was introduced in form by a meflage from the lord lieuterant, it was carried in favour of the union, after' a long and interefting debate, by a majority of 161 againft 115 . The articles of the intended union were tranfmitted to England by the lord lieutenant; they were again fubmitted to the Britih parliament on the $2 d$ of April; on the 2d of July the bill received the royal affent, and the union took place on the if of lanuary 1801.

In confequence of this union, which we truft will prove an unfpeakable bleffing to both countries, the Irifh are to have a thare of all the commerce of Great Britain, with the exception of fuch narts of it as belong to chartered companies, and confequently not free to the inhabitants of the Britifh empire indifcriminately.


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We may form fome idea of what the trade of Ire- Ie'ard. land mull have been in former times, when, fo lase as the reign of Brien Born, who dicd in rest, notwithflanding the ravages and dittrefies which a Darifl war, of above 200 years continuance, muft have produced throughout the kingdom, the annual duties arifing from goods imported into the fingle port of Limerich, and paid in red wine, amounted to 365 pipes! Even fo lately as the laft century, it is fcarcely credible what riches this city derived from the bare manufacture of thoes, which were exported in amazing quantities; whereas now, inflead of fhoes and boots, we fee the raw hides flipped off for foreign markets.

No country in the world feems better fituated for a maritime power than lreland, where the ports are convenient to every nation in Europe, and the havens fafe and commodious The great plenty of timber, the fuperior excellence of the oak, and the acknowledged fkill of her ancient artizans in wood-works, are circumftances clearly in her favour. That the Irith formerly exported large quantiiies of timber, is manifelk from the churches of Gloucefter, Weftminter monaftery and palace, \&*c. being covered with Irih oak.

The government of the kingdom is in the hands of Govers. a viceroy, or lord-lieutenant, who lives in very great ment, pofplendor. $\ln$ his abfence there are Iords jufices (fyled \&uc. their excellencies), generally three in number, viz. lord primate, lord high clancellor, and, before the union, the feaker of the houfe of commons. The parliament of Ireland, while it exifted, was regulated in the fame way as the Britifh parliament.

Ireland is divided into four large provinces, and thofe again into 32 counties, as follows:

## I. ULSTER.

| Counties. Hound | Houfes. | Extent, \&c. |
| :---: | :---: | :---: |
| 1. Antrim 20 | 20738 | Length 68 |
| 2. Armagh 1 | 13125 | Breadth $9^{8}$ \}miles |
| 3. Cavan | 9268 | Circumference 460 |
| 4. Down | 26090 | Irith plantation acres, $283683 \%$ : |
| 5. Donnegal | 12357 | Englifh acres, 4491205. |
| 6. Fermanagh | 5674 | Parihes, 365 |
| 7. 1. ondonderry | y 14527 | Boroughs, 29 |
| 8. Monaghan | 26637 | Baronies, 55 |
| 9. Tyrone | 16545 | Archbihopric, Bihoprics, 6 |
|  | 144961 | Market towns, 58 |
|  | II. L. | NSTER. |
| 1. Caterlogh, or | or Car. | Length 104 |
| low | 5444 | Breadth 55$\}$ miles |
| 2. Dublin | 24145 | Circumference 360 |
| 3. Kildare | 8887 | Irih acres, 2642958 ; or |
| 4. Kilkenny | 3235 | 4281155 F.nglim. |
| 5. King's county | ty 9294 | Parihes, 858 |
| 6. Longford | 6057 | Boroughs, 53 |
| 7. Lowth | 8150 | Earonies, 99 |
| 8. Meath(Eaf) | )14000 | Market-towns, 63 |
| 9. Queen's coun- |  | Archbifhopric, 1 |
| ty | 11226 | Bithoprics, 3 |
| 10. Weflmeath | 9621 | The rivers are, the Boyne |
| 11. Wexford | 13015 | Earrow, Liffy, Noir, and the |
| 12. Wicklow | 7781 | May. |
|  | 120851 |  |
|  |  | צ゙y II |

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Irelard.

III. MUNSTER.



## IV. CONNAUGHT.

| 3. Galway | 15576 | Length |
| :---: | :---: | :---: |
| 2. Leitrim | 5156 | Breadth. 80 \}miles |
| 3. Mayo | 1.5089 | Circumference 500 J |
| 4. Rolcommon | 8\%80 | lrihacres, $2272915 ; 36817+6$, |
| 5. Sligo | 5970 | Pariohes, 330 [Englifh |
|  |  | Boroughs, 10 |
|  | 50571 | Baronies, 43 |
|  |  | Archbihopric, I |
|  |  | Bihop, I |
|  |  | Rivers are the Shannon, My, Suck, and Gyll. |

In 1731, while the duke of Dorfet was lord lieutenant, the inhabitants were numbered, and it was found that the four provinces contained as follows:


The return of houfes in Ireland for the year 17.5 t , was 395,439 ; and for the ycar 1766 , it was 424,046 . Suppofing therefore the numbers to have increafed at the fame rate, the number of houfes now cannot be lefs than $454,13^{5}$; which, allowing five perfons to at family, will make the number of inhabitants $2,260,650$ : but as the rcturn of the houfes by hearth-collectors is rather under than above the truth, and as there are many families in every parilh who are by law excufed from that tax, and therefore not returned, the number on a moderate eftimate will be $2,500,000$. Sir Wr. Petty reckoned 160,000 cabins without a chimmey; and if there be an equal number of fuch houfes now, the number of people will be above $3,000,000$.

It has been frequently obferved by the moft celebrated writers on political arithmetic, that plenty of food, frequency of marriage, a falubrious climate, a mild and equitable government, and an increafed demand for labour, are the never failing criteria of an increafing population in any country whatever. The three firf of thefe have contributed in a very powerful manner to increafe the population of Ireland in the 18 th century. The climate of that country has changed for the better in a mof afonithing degree fince the middle of the 17 th century. The extenfive forefls with which it once abounded, no longer exit, to noll ruct the circulation of a free current of air ; and fome inquifitive philofophers have hazarded an opinion, that the atmofphere of Ireland contains a larger proportion of oxygen in any giv-
en quantity, than is to be met with in fome other coun- Ireland. tries. It camot be known what effect this may have on the population of a country, becaufe it is found by eminent chemifls, that about 75 of oxygen in 100 parts of atmofpheric air, conflitute the proportion difcovered by analylis of the air in different climates, and at different heights.

That the population of Ireland is increafing, notwithllanding the ravages of the late rebellion, appears from the rapid increafe and flourilling fate of trade and commerce, which unavoidably occafions an increafe of labour, and that again a multiplication of hands. All articles of the nature of provifions, as well as manufactures, have rapidly incieafed, and the tillage in particular is fix times more extenfive than it was about the year 1783 , fo that ix: times more people are employed in that lingle department of labour than were required at the fore-mentioned period. The pcople thus engaged mult aifo furnilh employment for a much greater number of mechanics of ail defcriptions, as the numerous and varied branches of trade depend on each other like the links of a chain. The aftonifhing increafe of the quantity of many articles imported into Ireland for home confumption, fuch as coals, drapery, tobacco, tea, and fugar, may be reyarded as another decifive proof of an increated population. $\operatorname{In}{ }_{17} 83$, there were 230,135 tons of cozls imported, but in $180+$ there were 417,030 tons, notwithlanding the confumption was greatly dinimithed, oxings, to an augmentation of 7 s. per ton on the price of that important article. There were 353,753 yards of old drapery imported in 1783 ; but in 1804 , according to the cuftomhoufe books, they amounted to no fewer than $1,330,304$ yards, or almoft a fourfold increafe. In the year 1783 , there were imported of tobacco $3,459,861$ pounds; but in 1804 that quantity was almoft doubled: and as the ufe of that article has greatly declined, it follows of confequence, that the population has wonderfully increafed. The fame fact is alfo proved from the confumption of tea and fugar at thefe two different periods, the quantity of both articles having been doubled in 1804.

If then re ailow, on an average, fix perfons to each houfe in lreland, it will appear from accurate returns made in the year ${ }^{1777}$, that there were $2,690,556$ people in that country, and $3,900,000$ in 1788 . If it be admitted as a fact (in fupport of which many refpectable documents could be produced), that the population of Ireland has, fince the year 1791, experienced an annual average increafe of nearly 91,448 fouls, it may fairly be concluded that the whole inhabitants of that country cannot be eftimated much under 5,395,436 fouls. It muft at the fame time be acknowledged, that the caufes affecting the population of Ireland have not always operated with uniformity, and therefore a permanently accurate Handard cannot be fixed, although there is every reaion to believe that it is rather on the increafe than the contrary. The average number of perfuns which we have affigned to each houfe is indeed greater than what is found to obtain in England or Wales (viz. $5 \frac{2}{\frac{2}{8}}$ ), but it is fully warranted by the actual furvey of different counties. Mr Arthur Young found the average number to be fix in fome parts of the province of Ulfter; the fame at Drumoland in the provincc of Munfter; and at Kilfane it was

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$6 \frac{1}{2}$. Mr Tighe confiders fix as the avernge number in the county of Kilkenny; while in the town of Cove, and county of Cork, it was found no lefs than $9^{\frac{3}{4}}$ ! The fame author aiferts that in one village he found the average number to be 9 , and in others 7 and 8 , fo that 6 nut be confidcreil as a moderate effinate; and Mr Newenham feem, fully warranted, from thefe confiderations, in eftimating the population of Ireland, in round numbers, at $5 \cdot 400,000$ feuls.

As numercus realons conipire to evince, that the population of this comntry is doubled in the courle of 46 years, we think with Mr Newenham, that it is extremely probable that it will not amount to lefs than $8,4^{13,25} 24$ by the year 1837 ; and yet lreland is fully competent to fupport this population, immenfe as it is *.

According to Young, Newenham, and others, the foil in point of fertility even furpafies that of England; it contains not fuch a large proportion of walte land, and many exienfive tracts of the productive foil feem to be wholly unrivalled in refpect of fertility. For an ample detail of "the uncommon richnefs and fertility of the foil of lreland in general, we refer our readers to Che inftrutive Tour of Mr A. Young, which contains many experiments made by himfelf on the loils of different counties.

What a valuabie acquifition to the Rritifh empire, of which it now happily forms a conftituent part, fince it can augraent the military firength of the whole in a very powerful manner, and make fuch refpectable additions to the Britifh revenue as cannot fail to refult from its floutithing commerce. Ireland in a fate of enmity againit Pritain, both weakened the latter, and rencered herfelf vulnerable in a high degree; but fince both are happily united, and have only one common intereft, we truft that the molt daring encmy thall ever find thern invulnerable.

Beauty feems to be more difufed in England, among the lower ranks of life, than in Ireland; which may, however, be attributed io the mere modes of living. In England, the meanelt cottager is better fed, better lodged, and better drefied, than the moft opulent farmers here, who, unaccuflomed to what our peafants reckon the comforts of life, know no luxury but in deep potations of aquavitre.

From this circumitance, we may account for a fact reported by the officers of the army here. They fay, that the young fellows of Ireland, who offer to enlift, are more generally below the given height than in England. There can be no appeal from their teftimony; for they were Irith, and the ftandard is an infallible teft. No reafon, indeed, can be given why the caufes which promote or prevent the growth of other animals, fhould not have fimilar effects upon the human fpecies. In England, where there is no Itint of proviions, the growth is not checked; but, on the contrary, it is extended to the utmolt bound of nature's criginal intention; whereas, in Ireland, where food is neither in the fame quantity nor of the fame quality, the body cannot expand itfelf, but is dwarfed and frunted in its dimenfions. The gentlemen of Ireland are full is tall as thofe of England : the difference, then, hetween them and the commonalty, can only proceed from the difference of food.

The inhabitants, in general, of this kingdom are

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very far from, what they have too often and uajully Ireland. been reprefented by thofe of our country who never fase them, a nation of wild Irifh. Niferable and opprefled, as by far too many of them are, an Englilhman will find as much civility in general, as amonglt the fame clafs in his own country: and, for a fmall pecuniary confideration, they will exert themlelses to pleafe you as much as any people pierhaps in the king's dominions. Poverty and oppreflion will naturally make mankind four, rude, and unfociable; and eradicate, or at leaft fupprefs, all the more amiable principles and palions of humanity. But it hould feem unfair and ungenerous. to judge of, or decide againt, the natural difpofition of a man reduced by indigence and oppreflion almo!t to defperation. Let commerce, agriculture, and arts, but cali forth the dormant activity of their geniss, and roule the native fpirit of enterprife, which nove lies torpid within them; let liberal laws unfetter their minds, and plenty cheer their tables; they will foon how themfelves defersing to rank with the moft refpectable focieties in Europe.
"The lower Irinh, (fays Carr + ) , are remarkable for $\dagger$ Stranger their ingenaity and docility, and a quiek conception; in Ireland, in thefe properties they are equalled only by the Ruf-p. 217. fians. It is curious to fee with what fcanty materia!s they will work; they build their own cabins, and make bridles, ftirrups, cruppers, and ropes for every rultic purpofe, of hay; and Britifh adjutants allow that Irilh recruits are foner made foldiers of than Englifh ones.
"That the Irith are not naturally lazy, is evident from the quantity of laborious work which they will perform, when they have much to do, which is not frequently the cafe in their own country, and are adequately paid for it, fo as to enable them to get proner food to fupport fevere toil. Upon this principle, in England, an Irilh labourer is always preferied.
"I The handfomeit peafants in Ire!and are the natives of Kilkemny and the neighbourhood; and the molt wrerched and lqualid near Cork and Waterford, and in Muntter and Connaught. In the county of Rofommon the male and female pealantry and horfes are handfome, the former are fair and tall, and poffefs great flexibility of mufcle: the men are the bett leapers in Ireland: the fineft hunters and moft cxpert huntimen are to be found in the fine fporting county of Fermaragh. In the county of Meath the peafants are very heavily limbed. In the county of Kerry, and along the weftern fhore, the peafants very much refemble the Spaniards in expreffion of countenance, and colour of hair.
"The inftruction of the common people is in the loweft flate of degradation. In the fummer a wretched uncharactered itinerant derives a fcanty and precarious exiltence by wandering from parilh to parih, and opening a fchool in fome ditels covered with heath and furze, to which the inhabitants fend their children to be inftructed by the miferable breadlefs being, who is nearly as ignorant as themfclves; and in the winter thefe pedagogue pedlars go from door to door offering their fervices, and pick up julf fulficient to present themfelves from perihing by famine. What proportion of morals and learning can flow from fuch a fouree into the mind of the ragged young pupil, can eafily be imagised, but cannot be retlected npon without ferious

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## i R E [ 356$]$ I R O

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conccrn. A gentleman of undoukted veracity flated, not long fince, befure the Dublin aflociation for difitriLuting bibles and teflanents amongit the poor, that whode parilices were without a bible.
" Their hofpitality, when their circumfances are not $t 00$ wretched to difplay it, is remarkably great. It is thus beautifully defcribed ty MIr Curran. The hofpitality of other countries is a matter of necelfity, or convention : in favage nations, of the firf; in pol:fhed, of the latter: but the hofpitality of an Irihman is not the sumsing account of poficd and ledgered courtefies, as in other countries: it fprings, like all his other qualitice, his fault, his virtues, direcily from the heart. The heart of an Ifilimen is by nature bold, and he confides; it is tender, and he loves; it is generous, and he gives; it is focial, and he is hofpitable."
The bogs wherewith Ireland is in fome placcs overgrown, are not injurions to health, as is commonly imagined; the watery exhalations from thefe are neither fo abundant nor fo noxious as thofe from mar:hes, which become prejudicial from the various animal and vegetable fuoflances which are left to putrefy as foon as the waters are exhaled by the fun. Bogs are not, as one might fuppofe from their blacknefs, maffes of putrefaction ; but, on the contrary, they are of fuch a texture, as to refift putrefaction above any other fubftance we know of. 4 fhoe, all of one piece of leather, very neatly flitched, was taken out of a bog fome years ago, yct entirely frelh;-from the very fad thion of which, there is fearce room to doubt that it has lain there forne centuries. Butter, called roulkin, had been found in hollowed trunks of trees, where it had been hid fo long, that it was become hard and almof friable, yet not devoid of unctuofity; that the length of time it had been buried was yery great, we learn from the depth of the bog, which was ten feet, that had grown over it. But the common phenomenon of timber-trees dug out of thefe bogs not only found, but alfo fo embalmed as afterwards to defy the injuries of time, demonfrate the antifeptic quality of them. The horns of the moofe-deer mulf have lain many centuries in a bog; for the Irifh hifories do not - recognize the exiftence of the animal whereon they grew. Indeed, human bodies have, in many places, been dug up entire, which muft have lain there for ages. The growth of bogs, however, is variable in different places, from the variety of conditions in the fituation, foil, humidity, and q̧uantity of vegetable food; in fome places it is very rapid, in others very flow; and therefore their altitudes cannot afford any ccrtain meafure of time. In the manufacturing counties of the north, peat-fucl has become fo fcarce, that turburies let from five to eight guineas an acre. In fome places they are fo eradicated, there does not remain a trace of them, the ground being now converted into rich meadows and fireet paftures.

If we truft to authorities, we mult conclude that Ireland was not originally inferior to England, either in the fcrtility of the foil or falubrity of the climate. When this country thall have felt the happy effects of the late conceffrons and indulgences of the Britilh parliament, by repealing feveral atts which reftrained the trade of this kingdom with foreign porta, and allow. ing the exportation of woollen manufactures and glafe, and dhall have received further indulgences from the
fame authority; and when the fpirit of induftry hail be infuled, in confequelice of it, into the common people ; their country will not be inferior to any other on the globe under the farne parallel.

IRENÆUS, ST, a billop of Lyons, was born in Greece about the year 120 . He was the difciple of Pappias and St Polycarp, by whom, it is faid, be was fent into Gaul in 157. He lived at Lyons, where he performed the office of a prielt; and in 178 was fent to Rome, where he difputed with Valentinus, and his two difciples Florinus and Blafus. At his return to Lyons, be fucceeded Plootinus, bilhop of that city ; and fuffered martyrdom in 202, under the reign of Severus. He wrote many books in Greek, of which there only remains a barbarous Latin verfion of his five books againft heretics, fome Greek fragments in different authors, and Pope Victor's letter mentioned by Eufebius. The beft editions of his works are thofe of Erafnus, in 1526; of Grabe, in 1702; and of Father Mafluet, in 1710.

He ought not to be confounded with St Irenxus the deacon, who in 275 fuffered martyrdom in Tufcany, under the reign of Aurelian; nor with St Irenaus, bithop of Sirmich, who fulfered martyrdom on the 25 th of March 304 , during the perfecution of Diuclefian and Maximianus.

IR ENE, emprefs of the eaf, celebrated for her valour, wit, and beauty; but deteflable for her cruelty, having facrificed her own fon to the ambition of reigning alone. She died in 803 .

IRESINE, a genus of plants belonging to the diœcia clafs, and in the natural method ranking under the 54 th order Mifcellanea. See Botany Index.

IRIDIUM, a metal obtained from crude platina. See Chenistry, No 2: 53, p. 699.

IRIS, in Physiology, the rainborr. The word is Greek, if;s, fuppofed by fome to be derived from agew "I fpeak, I tell;" as being a meteor that is fuppoled to foretel, or rather to declare rain. See Rainiow.

Lunar Ikis, or Moon-rainbow. See Rainbort, Lunar.

Iris, in Anatomy, a friped variegated circle round the pupil of the eye, formed of a duplicature of the uvea. See Axatomy Index.
Iris is alfo applied-to thofe changeable colours which fometimes appear in the glaffes of telefcopes, microfcopes, \&c. fo called from their fimilitude to a rainbow. The fame appellation is alfo given to that coloured fpectrum, which a triangular prifmatic glafs will project on a wall, when placed at a due angle in the fun-beams.
1ris, the Flower de Luce, or Flag-flower, \&c. a genus of plants, belonging to the triandria clafs, and in the natural method ranking under the fixth order, Enfatur. See Botany Index.

IRON, one of the metals, and one of the hardeft and moll uleful, as well as the moft abundant. See Chemistry and Mineralogy Index; and for its electrical and magnetical properties, fee Electricity and Magnetisn.

Iron-Moulds, and fpots of ink in linen, may be taken out by moiltening the fained part in a folution of oxalic acid in diftilled water, and then wafhing it out in pure water.

Iron-Sick, in the fea-language, is faid of a hip or

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1-wooi boat, when her bults or nails are fo eaten with ruft, and fo rwor: away, that they occafion hollows in the planks, whereby the vellel is rendered leaky.

Iron-Hood, in Boramy. See Sideroxylumf, Botany Index.

Iran-Wort, in Botany. See Sideritis, Botany Index.

IRONS", in Rhetoric, is when a perfon fpeaks contrary to his thoughts, in order to add force to his difcourfe; whence Quintilian calls it diverfiloquium.

Thus, when a notorious villain is fcornfully complimeated with the title of a very honeit and excellent perfon; the charaster of the perfon commended, the air of contempt that appears in the fpeaker, and the evorbitancy of the commendations, fufficiently difcover the dillimulation of irony.

Ironical exhortation is a very agreeable kind of trope; which, after having fet the inconveniences of a thing in the cleareft light, concludes with a feigned encouragement to purfue it. Such is that of Horace, whe:, having beautifully defcribed the noife and tumults of Rome, he adds ironically,

Go now, and itudy tuneful verfe at Rome!
IROQUOIS, the name of fire nations in North America, in alliance with the Britifh colonies. They are bounded by Canada on the north, by the Britilh plantations of New York and Pennfylvania on the eaft and fouth, and by the lake Ontario on the wef.

IRRADIATION, the aft of emitting fubtile effluvia, like the rays of the fun, every way. See EFfluvia.

IRREGULAR, fomething that deviates from the common forms or rules; thus, we fay an irregular fortification, an irregular building, an irregular figure, \&c.

Irregutar, in Grammar, fuch inflections of words as vary from the general rules; thus we fay, irregular nouns, irregular verbs, \&c.

The diainetion of irregular nouns, according to Mr Ruddiman, is into three kinds, viz. variable, defective, and abundant ; and that of irregular verbs into anomalous, defective, and abundant.

IRRITABILITY, in Anatomy and Merlicine, a term firlt invented by Gliffon, and adopted by Dr Haller to denote an effential property of all animal bodies; and which, he fays, exifts independently of and in contradifinction to fenfibility. This ingenious author calls that part of the human body irritable, which becomes thorter upon being touched; very irritable, if it contracts upon a flight touch; and the contrary, if by a violent touch it contracts but little. He calls that a fenfible part of the human body, which upon being touched tranfmits the impreffion of it to the foul; and in hrutes, he calls thofe parts fenfible, the irritation of which occafions evident figns of pain and difquiet in the animal. On the contrary, he calls that infenfible, which being burnt, tore, pricked, or cut till it is quite deftroyed, occafions no fign of pain nor convulfion, nor any fort of change in the fituation of the body. From the refult of many cruel experiments he concluacs, that the epidermis is infenfible; that the $\mathfrak{k}$ in is fenfible in a greater degree than any other part of the body; that the fat and cellular membrane are infenfibie; and the
mufcular fleth ferfible, the fenfibility of which he a-tritabilieyforibes rather to the nerves than to the flefh itfolf. "The tendons, he fays, having no nerves diftributed to them, are infemsble. The ligaments and capfula of the articulations are allo concluded to be infenfible; whence Dr Haller infers, that the flarp pains of the gout are not feated in the capfula of the joint, but in the $\mathfrak{A}$ in, and in the nerves which creep upon its extcmal furface. The bones are all infenfible, lays Dr Haller, except the teeth; and likewife the marrow. Under his experiments the periolleum and pericranium, the dura and pia mater, appeared infenfible; and he infers, that the fenlibility of the nerves is owing to the medulla, and not to the membranes. The arteries and veins are held fufceptible of little or no fenfation, except the carotid, the lingual, temporal, pharyngal, labial, thyroidal, and the aorta near the heart; the fenfibility of which is afcribed to the nerves that accompany them. Senfibility is allowed to the internal membranes of the fomach, inteftines. bladder, ureters, vagina, and womb, on account of their being of the fane nature with the flin: the heart is alfo admitted to be fenfible : but the lungs, liver, fpleen, and kidneys, are poffeffed of a very imperfect, if any, fenfation. The glands, having few nerves, are endowed with only an obtufe fenfation. Some fenfibility is allowed to the tunica choroid's and the iris, though in a lefs degree than the retina; but none to the cornea. Dr Haller concludes, in general, that the nerves alone are fenfible of themfelves; and that, in proportion to the number of nerves apparently dillributed to particular parts, fuch parts poffefs a greater or lefs degree of fenfibility.

Irritability, he fays, is fo different from fenfibility, that the mof irritable parts are not at all fenfible, and vice verfa. He alleges facts to prove this pofition, and alfo to demonftrate, that irritability does not depend upon the nerves, which are not irritable, but upon the original formation of the parts which are fufceptible of it. Irritability, he fays, is not proportioned to fenfi. bility ; in proof of which, he obferves, that the inteftines, though rather lef's fenfible than the Romach, are more irritable; and that the heart is very irritable, though it has but a fmall degrec of fenfation.

Irritability, according to Dr Haller, is the diftinguifhing characteritic between the mufcular and cellular fibres; whence he determines the ligaments, periof. teum, meninges of the brain, and all the membranes compofed of the cellular fubitance, to be void of irritability. The tendons are unirritable; and though he does not abfolutely deny irritability to the arteries, yet his experiments on the aorta produced no contration. The reins and excretory ducts are in a fnall degree irritable, and the gail-bladder, the ductus cholcdochus, the ureters and urethra, are only aftected by a very acrid corrofive; but the lacteal vefiels are confiderably irritable. The glands and mucous finufes, the uterus in quadrupeds, the human matrix, and the genitals, are all irritable; as are alfo the mufcles, particularly the diaphragm. The cefophagus, Atomach, and intelitines, are irritable: but of all the animal organs the lieart is endued with the greatelt irritability. In general, there is nothing irritable in the animal body but the mufcular fibres: and the vital parts are the moft irritable. This po:ier of motion, arifing from irritations, is fuppofed

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Irrogatio to be different from all other properties of bodies, and probably relides in the glutinous mucus of the mufcular fibres, altogether independent of the intiuence of the $\{$ tul. The irritability of the mufcles is faid to be detroyed by drying of the fibres, congealing of thie fat, and more efpecially by the ufe of opium in living animals. The phyfological fifem, of which an athract las been now given, has been adopted and confirmed by Caftell and Zimmermann, and alfo by Dr Brockletby, who fuggefte, that intitability, as diftnguibed from \{enfibility, may depend upon a leries of nerves different from luch as ferve either for voluntary motion or fenfation. 'This doetrine, however, has been controrerted by M. le Cat, and particularly by Dr Whytt in his Phyfological Efins. Sec alfo ANatomy, $N^{\text {o }}$ \& 6 , at feq, and $\mathrm{N}^{\circ} 136$.

IRROGAT1O, a law term amongt the Romans, fignifying the inflrument in which were put down the punithments which the law provided againt fuch offences as any perfon was accufed of by a magittraie before the pcople. Thefe punilhments were firlt proclaimed viva voce by the accufer, and this was called Inquiftio: The fame, being immediately after exprefled is writing, took the name of Rogatio, in refpect of the people, who were to be confulted or afked about it, and was called Irrogatio in refpect of the criminal, as it imported the muld or punifhment affigned him by the acculer.

IrROMANGO, or Erramongo, one of the New Hebrides illands, is about 24 or 25 leagues in circuit ; the middle of it lies in E. Long. 169. 19. S. Lat. 18. 54. The inhabitants are of the middle fize, and have a good hlape and tolerable features. Their colour is very dark; and they paint their faces, fome with black, and others with red pigment : their hair is curly and crifp, and fomewhat woolly. Few women were feen, and thofe very ugly: they wore a petticoat made of the leaves of fome plant. 'The men were quite naked, excepting a belt tied about the waift, and a piece of eloth, or a leaf, ufed for a wrapper. No canoes were feen in any part of the illand. They live in houfes covered with thatch: aud their plantations are laid out by line, and fenced round. An unlucky fouthe between the Britifh failors and thefe people, in which four of the latter were defperately wounded, presented Captain Couk from being able to give any particulat information concerning the produce, \&c, of this illand.

IRTIS, a large river of Afia, in Siberia, which rifes among the hills of the country of the Kimucks, and, rumning north-eaft, falls into the Oby near Tobo!fh. It abounds with filh, particularly fturgeon, and delicate lalmon.

IRV1NE, a fea-port and borough town of Scotland, in the bailiwick of Cumingham, and county of $\therefore \mathrm{yr}$; feated at the mouth of a river of the fame name on the frith of Clyde, in W. Long. 2. 55. N. Lat. 55. 36. This port had formerly feveral butfes in the her-ring-fihhesy. At prefent that branch is given up; but the iahabitants fill employ a number of veliels in the cral trade to Ireland, and alfo in the Baltic and carryine trade. Ship-building and rope making are carried ( ) is a confiderable extent at Irvine.
is A $A C$, the Jewifh patriarch, and example off flial - Lidicice, died 1716 B. C. aged 180.

ISEUS, a Grcek orator, born at Colchis, in Syria, was the difciple of Lyfias, and the mafter of Demofthenes; and taught eloquence at Atheis, about $3+4$ years P. C. Sixty-four orations are attributed to him ; but he compofed no more than 50, of which only 10 are now remaining. Ire took Lyylias for his model, and to we!l imitated his ilyle and elegance, that we might eafily confound the one with the other, were it not for the figures which Ilaus firl introduced into frequert ufe. He was allo the firt who applied eloquence to politics, in which he was followed by his difcipie Demothenes.

He ought not to be confounded with Ifieus, another celebrated orator, who lived at Rome in the time of Pliny the younger, about the year 97 .

ISAIAH, or the Prophrcy of Isalath, a camonical book of the Old Teftament. Ifaiah is the firf of the four greater prophets; the other three being Jememiah, Ezekiel, and Daniel. 'This prophet was of ruyal blood, his father Amos being brother to Azariah king of ludah. The five firt chapters of his prophey relate to the reign of Uzziah; the vifion in the fixth chapter happened in the time of lotham: the nest chapters to the fifteenth, include his prophecies under the reign of Ahab; and thole that were made under the reigns of Hezekiah and Manafich, are related in the nest chapters to the end. Ifaiah foretold the deliverance of the Jews from their captivity in Babylon by Cyrus, one rundred years before it came to pafs . But the moft remarkable of his predichions are thofe concerning the Mefliah, which defcribe not only his defeent, but all the remarkable circumftances of his life and death. 'The Ayle of this prophet is noble, nervous, fublime: and florid, which he acquired by converfe with men of the greateft abilities and elocution : Grotius calls him the Demofthenes of the Hebrews. However, the profoundnefs of his thoughts, the loftinefs of his expreflions, and the extent of his prophecy, render him one of the moft difficult of all the prophets; and the commentaries that have been hitherto written on his prophecy fall fthort of a full explication of it. Bithop Lowth's new tranflation, \&tc. publifted in 1778 , throws confiderable light oa the compofition and meaning of Ifaial:.

ISATIS, woad; a genus of plants belonging to the tetradynamia clafs; and in the natural method ranking under the 39 th order, Siliquofu. One fpecies of this plant, the inctoria, yields a colouring matter. See Colour-Making and Dyeing Index.

Isatis, in Zoology, a fynonyme of the canis lagopus. See Canis, Mammalia Index.

ISAURA, or Issurus, in Ancient Geograpluy, a frong city at Mount Taurus, in I Gauria, twice demolihhed; firit by Perdiccas, or rather by the inhabitants, who, through defpair, deflroyed themfelves by fire rather than fall into the hands of the enemy; again by Servilius, who thence took the furname I/auricus. Strabo fays there were two Ifauras, the old and the new, but fo near that other writers took them but for one.

ISAURIA, a country touching Pamphylia and Cilicia on the north, jugged and mountainous, fituated almoft in Mount 'Taurus, and taking its name from I faura; according in fome, extending to the Mediterranean by a narrow lip. Stephanus, Ptolemy, and Zofimus, make

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surisa make no mention of flaces on the fea; though Pliny does, as allo Strajo; but dubbfful, whether they are places in Lauria Proper, or in Pamphylia, or in Cilicia.

ISAURICA, a part of Lycaonia, bordering on Mount Taurus.

ISCA Dummorum, in Ancient Guograply, a town in Britain. Now Exeter, capital of Devonflire. W. Long. 3. 40. Lat. 5. 44. Called Cacr-I/k in Britilh, (Cainden.)
Isca Silurum, in Ancient Geograply, the flatom of the Lesio 1I. Augulta, in Britain. Now Caerleon, a town of Monmouthinire, on the Uike.
ISCHAL1S, or Iscalis, in Ancient Geography, a town of the Belge in Britain. Now Ifchefter, in Somerfethire, on the river 111.

ISCHAEUN, a genus of plants belonging to the poIygamia clafs; and in the natural method ranking under the $4^{\text {th }}$ order, Gramina, See Botany Index:
ISCHIUM, in Anatony, one of the bones of the pelvis. See Anatomy, No ${ }_{4}$ I.
ISCHIA, an itland of lialy, in the kingdom of Naples, about 15 miles in circumference, lying on the coatt of the Terra di Lavoro, from which it is three miles diftant. It is full of agreeable valleys, which produce excellent fruits. It hath alfo mountains on which grow wines of an excelient kind : likewife fountains, rivulets, and fine gardens.

Ischia, a town of Italy, and capital of an ifland of the fame name, with a bithop's fee and a flrong fort. Both the city and fortrefs fland upon a rock, which is juined to the illand by a flrong bridge; the rock is about feven furlongs in circumference. The city is like a pyramid of houfes piled upon one another, which makes a very fingular and flriking appearance. At the end of the bridge next the city are iron gates, which open into a fubterraneous pallage, through which they enter the city. They are always guarded by foldiers who are natives of the illand. E. Long. 13.55 . N. Lat. †. 50.

ISCHURIA, wryses (formed from $\sigma$ zu" "I Itop," and sego "urine,") in Phyjfc, a difeafe conlifting in an entire fuppreffion of urine. See Menicine Index.

ISELASTICS, a kind of games, or combats, celebrated in Gieece and Afia, in the time of the Roman emperors.

The victor at thefe games had very confiderable privileges conferred on him, after the example of Auguitus and the Athenians, who did the like to conquerors at the Otympic, Pythian, and Inhmian games. They were crowned on the fpot immediately after their vietury, had penfions allowed them, were furnilhed with provifions at the public coll, and were carried in triumph to their country.

ISENACH, a town of Germany, in the circle of Upper Saxony, from whence one of the Saxon princes takes the title of duke. There are iron mines in the neighbourhood. E. Long. 9. 17. N. Lat. 51. O.

ISENARTS, or EISENARTS, a conliderable town of Germany, in Auftria and in Stiria; famous for its iron mines. E. Long. 15. 25 . N. Lat. 46.56.

ISENBURG, a large town of Germany, capital of a county of the fame name, with a handfome caftle, feated on the river Seine, in E. Long. 7. 14.

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N. Lat. 50.28. The county belangs to the clechor fir nplician of 'Ireves.

ISENGHEIN, a town of the Auftian Nether- $\qquad$
flis. lands, with the title of a principality, feated on the river Mandera, in E. Long. 3.18. N. Iat. 50. 44.

ISERNIA, a town of laly, in the kingdom of Naples, and in the county of Molife, with a bithop's fee. It is feated at the fout of the Apemines, in E. Long. 14. 20.

ISH, in Scots Laz, fignifies axpiry. Thus we fay "the ifls of a leafe." It fignities allo io g " ent; thus we fay "free $i / b$ and cntry" from and to any place.

ISIA, losice, feafts and facrifices anciently fulemnized in honour of the goddefs Ifis.- The Ifia were full of the molt abominable impurities; and for that reafon, thofe who were initated into them were obliged to take an oath of fecrecy. Whey held for nine days fucceffively, but grew fof fandalous, that the fenate abolithed them at Rome, under the confulate of Pifo and Grbinins. They were re-eftablithed by Auguftus, and the emperor Commodus himfelf affifted at them, appearing among the priefts of that goddefs with his head thaven, and carrying the Anubis.

ISIAC Table, is one of the moft confiderable monuments of antiquity, difoovered at Rome in 1525 , and fuppofed by the various figures in bas relief upon it, to reprefent the fealts of Ifis, and other Egyptian deities. There have been various opinions as to the antiquity of this monument : fome have fuppofed that it was engraved long before the time when the Egyptians worthipped the figures of men and women. Others, among whom is Bifhop Warburton, apprehend, that it was made at Rome by perfons attached to the worhhip of Ifis. Dr Warburton conliders it as one of the moll modern of the Egyptian monuments, on account of the great mixture of hieroglyphic characters which it bears.

IS1AC1, prielts of the goddefs Ifis,-Diofcorides tells us, that they bore a branch of fea wormwood in their hands iultead of olive. They fung the praifes of the goddefs twice a day, viz. at the riling of the fun, when they opened her temple; after which they begged alms the rell of the day, and returning at night, repeated their orifons, and hut up the temple.

Such was the life and office of the ifiaci; they never covered their feet with any thing but the thin bark of the plant papyrus, which occafioned Prudentius and others to fay they went barefooted. They wore no garments but linen, becaufe lis was the firlt who taught mankind the culture of this commodity.

1S1DORUS, called Damatesisis, or Pelusiots, from his living in a folitude near that city, was one of the mont famous of all St Chryfoflom's difciples, and Houribed in the time of the general council held in 42T. We have 2012 of his epitlles in five books. They are thort, but well written, in Greek. The belt edition is that of Paris, in Greek and Latin, printed in 1638 , in folio.
ISIGNI, a town of France, in Lower Normandy, with a fmall harbour, and well known on account of its falt works, its cyder, and its butter. W. Long. o. 50. N. Lat. 49. 20.

ISINGLASS. See Icmmboconia.
ISIS, a celebrated deity of the Egyptians, daugh.
ter of Saturn and Rhea, according to Diodorus of Si cily. Some luppole her to be the fame as Io, who was changed into a cow, and reftored to her human form in Kgypt, where the taught agricu!ture, and governed the people with mildnefs and equity, for which reafons the received divine honours after death. According to fome traditions mentioned by Plutarch, Ifis married her brother Ofiris, and was pregnant by him even before the had left her mother's womb. Thefe two ancient deities, as fome authors obferve, comprehended all nature and all the gods of the heathens. Ifis was the Venus of Cyprus, the Minerva of Athens, the Cybele of the Phrygians, the Ceres of E'eufis, the Proferpine of Sicily, the Diana of Crete, the Bellona of the Romans, \&ec. Ofiris and lifs reigned conjointly in Egypt; but the rebellion of Typhon, the brother of Ofiris, proved fatal to this fovercign. The ox and the cow were the fymbols of Oafris and Ifis; becaufe thefe deities, while on earth, had diligently applied themfelves to cultivating the earth. As Inis was fuppofed to be the moon, as Ofiris the fun, the was reprefented as holding a globe in her hand, with a veliel full of ears of corn. The Egyptians believed that the yearly and regular inumdations of the Nile proceeded from the abundant tears which Ifis fled for the lofs of Ofiris, whom Typhon bad bafely murdered. The word $I / 2 s$, according to fome, fignifies " ancient," and on that account the iufcriptions on the flatues of the goddefs were often in thefe words: "I am all that has been, that thall be; and none amorg mortals has litherto taken off my veil." The worfhip of Ifis was univerfal in Egypt, the priefts were obliged to obferve perpetual chaftity, their head was clofely haved, and they always walked barefooted, and clothed themfelves in linen garments. They never ate onions, they abftained from falt with their meat, and were forbidden to eat the flefh of theep and of hogs. During the night they were employed in coutinual devotion near the ftatue of the goddefs. Cleopatra, the beautiful gueen of Egypt, was wont to drefs herfelf like this goddefs, and affected to be called a fecond Ifis.

Isis, or Thames, a river that has its rife in Gloucefterfhire, and flows through only a fmall part of Wiltfhire. It enters this county near its fource, and begins to be navigable for boats at Cricklade; but after running in a ferpentine manner about four miles, it leaves Gloucefterthise at a village called Cafle Eaton.
lsis, a genus of animals belonging to the order zooplyta, in the clafs vermes: See Helminthology Index.

ISLAMI, or IsLamisn; the true faith, according to the Mahometans. See Mahometanism.

ISLAND, a tract of dry land encompaffed with water ; in which fenfe it fands contradiflinguilhed from Continhest, or Terra Firma.

Several naturalits are of opinion, that the iflands were formed at the deluge; others think, that there have been new illands formed by the cafting up of valt feaps of clay, fand, mud. \&c.; others think they have leen feparated foom the continent by violent forms, inuacitions, and earthquakes. Thefe laft have obferved, that the Eaft Iudics, which abound in iflands more than any other part of the world, are likewife,
more annoyed with earthquaker, tempefts, lightnings, volcanoes, \&c. than any other part. Others again conclude, that illands are as ancient as the world, and that there were fome at the beginning; and among other arguments, fupport their opinion from Gen. x. $5 \cdot$ and other pafinges of Scripture.

Varenius thinks that there have been illands produced each of thefe ways. St Helena, Afcenfion, and other fteep rocky iflands, he fuppofes to have become fo by the fea's overllowing their neighbouring champaigns; but by the heaping up huge quantities of fand, and other terreftrial matter, he thinks the illands of Zealand, Japan, \&c. were formed. Sumatra and Ceylon, and moft of the Eaft India ifiands, he thisks, were rent off from the main land; and concludes, that the illands of the Archipelago were formed in the fame way, imagining it probable that Deucalion's flood might contribute towards it. The ancients had a notion that Delos, and a few other iflands, rofe from the bottom of the fea; uhich, how fabulous foever it may appear, agrees with later obfervations. Seneca takes notice, that the illand Therafia rofe thus out of the ※gean fea in his time, of which the mariners were eye witneffes.

It is indeed very probable, that many iflands have exifted not only from the deluge, but from the creation of the world; and we have undoubted proofs of the formation of iflands in all the different ways abovementioned. Another way, however, in which illands are frequently formed in the South fea, is by the corallise infects. On this fubject there is a curious differtation by Alexander Dalrymple, Efq. in the Philofophical Tranfactions for the year 1768 , to which we refer the reader. See alfo Geography Index.

Islands of Ice. See Ice-Ifand.
Floaing ISLANDS. Histories are full of accounts of floating illands; but the greateft part of them are either falfe or exaggerated. What we generally fee of this kind is no more than the concretion of the lighter and more vifcous matter Hoating on the furface of the water in cakes; and, with the roots of the plants, forming congeries of different fizes, which, not being fixed to the fhore in any part, are blown about by the winds, and float on the furface. Thefe are generally found in lakes, where they are confined from being carried too far; and, in procels of time, fome of them acquire a very confiderable fize. Seneca tells us of many of thefe floating illands in ltaly; and fome later writers have defcribed not a few of them in other places. But, however true thefe accounts might have been at the time when they were written, very fow proofs of theeir authenticity are now to be found; the floating illands having either difappeared again, or been fixed to the fides in fuch a manner as to make a part of the fhore. Pliny tells us of a great ifland which at one time frvam about in the lake Cutilia is the country of Reatinum, which was difcovered to the old Romans by a miracle; and Pomponius tells us, that in Lydia there were feveral iflands fo loofe in their foundations, that every little accident flook and removed them.

Island (or Icelana) Cryflal. See Corstal, Iceland; Mineralogy Indter:

ISLE-ADAM, a town of France, with a liandfome caflle,

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Ale-de- caille, and the title of a baton; feated on the river Dies Oife, three miles from Beaumont, and 20 from Paris. E. Long. 2. $1_{3}$. N. Lat. 49. 7.

IsLe-de-Dieu, a fmall iniand of France, in the fea of Gafcony, and on the coalt of Poitou, from which it is diftant 14 miles. W. Long. 2. 5. N. Lat. 46.45.

ISLE-de-France, is one of the 12 general governments of France under the old divirion; bounded on the north by Picardy, on the weft by Normandy, on the fouth by the government of Orleannois, and on the eaft by that of Champagne. It is about 90 miles in length, and as much in breadth ; and is watered by the rivers Seine, Marne, Oife, and Aifne. The air is temperate, and the foil fertile; and it abounds in wine, corn, and fruits. It contains to fmall diltriets, and Paris is the capital city.

ISLEBIANS, in eccleliaftical hiftory, a rame given to thole who adopted the fentiments of a Lutheran divine of Saxony, called John Agricola, a difciple and companion of Luther, a native of Ineb, whence the name; who interpreting literally fome of the precepts of St Paul with regard to the Jewih law, declained againft the law and the neceffity of good works. See Antivonians.

ISLINGTON, a village of Middlefex, on the north fide of London, to which it is almoft contiguous. It appears to be of Saxon origin; and in the conqueror's time was written Ifledon, or Ifendon. The church is one of the prebends of St Paul's; to the dean and chapter of which a certain precinct here belongs, for the probate of wills, and granting adminittrations. The church was a Gothic Alructure, erected in 1503 , and flood till 1751, when the inhabitants applied to parliament for leave to rebeild it, and foun after erected the prefent ftructure, which is a very fubflantial brick edifice. though it does not srant an air of lightnefs. Its houfes are above 2000 , including the Upper and Lower Holloways, three fides of Newington Green, and part of Kingland, on the road to Ware. The White conduit houfe in this place, fo called from a white fone conduit that flands before the entrance, has bandfome gardens with good walks, and two large rooms, one above the other, for the entertainment of company at tea, \&c. In the S. W. part of this village is that noble refervoir, improperly called New River Head; though they are only two bafons, which receive that river from Hertfordfhire, ard from whence the water is thrown by an engine into the company's pipes for the fupply of London. In the red-moat on the north fide of thefe bafons, called Six-Acre Field, from the contents of it, which is the third field beycnd the White Conduit, there appears to have been a fortrefs in former days, enclofed with a rampart and ditch, which is fuppofed to have been a Roman camp made ule of by Suetonius Paulinus after his retreat, which Tacitus mentions, from London, before he fallicd thence, and routed the Britons under their queen Boadicea; and that which is vulgarly, but erroneoufly, called Jack Straw's cafle, is a fquare place in the S. W. angle of the field, fuppofed to have been the feat of the pretorium or Roman general's tent. In this parih are two charity-fchools; ore founded in 1613 by Dame Alice Owen, for educating 30 children. 'This foundation, together with that of a rov: of VoL. XI. Part I.
alms-houfes, are under the care of the brewers company. Here is an hofpital with its chapel, and a workhoufe for the poor. There is a frring of chalybeate water, in a very pleafant garden, which for ferme years was honoured by the confant attendatice of the pincefs Amelia, and many perfons of quality, who drank the waters. To this place, which is called New Tunbridge Wells, many pcople refort, particularly during the lummer, the price of drinking the waters being 10s. 6d. for the feafon. Near this place is a houfe of entertainment called Sodiller's Wells, where, during the fummer feafon, peofle are amufed with balance-mafters, walking on the wire, rope-dancing, tumbling, and pantominie entertainments.
ISLIP, a town of Oxfordhire, 56 iniles from Lon. don, is noted for the birth and baptilm of Edward the Confeffor. By means of inland navigation, it has communication with the rivers Merfey, Dee, Ribble, Oufe, 'Trent, Darwent, Severn, Humber, Thames, Avon, \&c. which mavigation, including its windings, extends above 500 miles, in the counties of Lincoln, Nottingham, York, Lancafter, Wellmoreland, Chelier, Stafford, Warwick, Ieicefter, OxSord, Worcetter, \&c. It has a good market for freep, and fome remains of an ancient palace, faid to have been King Ethelred's. Here is a charity-fchool. The chapel whercin Edward was baptized fiood at a frall diftance north from the church, is fill called the king's chapel, was entirely defecrated during Cromwell's ulurpation, and converted to the meaneft ufes of a farm-yard; at prefent it has a roof of thatch. It is built of ftone, 15 yards long and 7 broad, and retains traces of the arches of an oblong window at the ealt end. This manor was given by Edward the Confeifor to Weftminfter abbey, to whicb it thill belongs.

ISMAELITES, the defiendants of Ifmael ; dwel1ing from Havila to the wildernefs of Sur, towards Egypt, and thus orerfpreading Arabia Petrea, and therefore Jofephus calls Ifmael the founder of the Arabs.

ISMARUS, in Ancient Geography, a tcwn of the Cicones in Thrace, giving name to a lake. In Virgil it is called Ifmara. Servius fuppofed it to be a mountain of Thrace; on which mountain Otpheus dwelt.

ISNARDIA, a gsenus of plants belonging to the tetrandri? clafs, and in the natural method ranking under the 1gth order, Calycanthema. See Botaixy Index.

ISNY, an imperial town of Germany, in Suabia, and in Algow : feated on the river Ifny, in E. Long. 9. 10. N. Lat. 47. 33.

ISNIC, a town of Turkey in Afia, and in Natolia, with a Greek arclabifhop's fee. It is the ancient Nice, famous for the firt gencral council held here in 325 . There is now nothing remaining of its ancient iplendour but an aqueduet. The Jews inhabit the greateft part of it; and it is feated in a country fertile lin corn and excellent wine. E. Long. 30. 9. N. Lat. 47. 15 .

ISOCHRONAL, is applied to fuch vibrations of a pendulum as are performed in the fame fpace of time; as all the vibrations or fwings of the fame pendulum are, whether the arches it defcribes are fhorter o: Jonger.

Isoceronaz

Ihiohtenal line

Iij.ahan.

Isochransl hine, that in which a heavy body is fuppofed to defcend withuut any acceleration.

1SOCRA'LES, one of the greatelt orators of Greece, was born at Athens, 436 B. C. He was the fon of Theodorus, who had enriched himfelf by making mufical inflruments, and gave his fon a liberal education. Ifucrates was the difciple of Prodicus, Gorgias, anc: other great orators. He cadeavoured at finf to declain in public, but without fuccefs; he therefore contented himfelf with influcting his lcholars, and making private orations. He always hlowed great love for his country; and being informed of the lofs of the battle of Cheronea, he abfained four days from eating, and died, aged 98 . There are fill extant 21 of his difcourfes or orations, which are excellent performances, and have been tranflated from the Greek into Latin by Wolfius. Ifocrates particularly excelled in the jutnefs of his thoughts, and the elegance of his exprefions. There are alfo nine letters attributed to him.

ISUETES, a genus of plants belonging to the cryptogamia clafs. See Botany Index.

ISOLA, a town of Italy, in the kingdom of Naples, and in the Farther Calabria, with a bifhop's fie. It is a fea-port town, and is feated 15 miles fouth eaft of St Severina. E. Long. 7. 33. N. Lat. 39. 1.

ISOPERIMETRICAL FIGUREs, in Geometry, are fuch as have equal perimeters or circumferences.

ISOPYRUM, a genus of plants belonging to the polyandria class, and in the natural method ranking under the 26 th order, Multifiliqua. See Botany Index.

ISOSCELES triascle, in Geometry, one that has two equal fides.

ISPAHAN, or, as the Perfians pronounce it, Spauhawn, the capital of Perfia, is fitwated in the province of Irac Agemi, or Perfia Proper, upon the ruins, as generally fuppofed, of the ancient Hecatompylos, or, as others think of the Afpa of Ptolemy. Moft of the eaftern attronomers and geographers place it in N. Lat. 32. 25 . E. Long. 86. 40. It flands in a very extenfive plain, furrounded by mountains; and has eight difficts belonging to it, that contain aboat 400 towns and villages. The fertility of the foil, the mildnefs of the feafons, and the fine temperature of the air, all confpire to render Ifpahan one of the moft charming and delightful sities in the work. It is unanimoufly agreed, that the prefent city is of no great antiquity ; and the two parts into which it is divided, preferve the names of two contiguous towns, from,tbe junction of which it was form*d. The inhabitants of thefe, notwithftanding tbeir neighhourhood, bear an inveterate antipathy to each other; which they difcover on all public occafions. Spauhawn owes the glory it now poffelfes to the great Shah $\Lambda$ bas; who, after the conquelt of the kingdoms of Lar and Ormus, charmed with the fituation of this place, made it the capital of his empire, between the years 1620 and 1628 . The mountains, with which this city is furrounded, defend it alike from the fultry heats of fummer and the piercing winds of the winter feafon: and the plain on which it ftands is watered by \{everal rivers, which contribute alike to its ormament ard ufe. Of thefe rivers, the Zenderoud, after being joined by the Mahmood, palfes by Spauhawn; where it
has three fine bridges over it, and is as broad as the Fịah: Seine at Paris. The waters of thele united itreams are fweet, pleakant, and wholefome, almoit beyond comparifon; as indeed are all the fprings found in the gardens belonging to the houles of Spauluawn. The extent of Spauhawn is very great ; not lefs perhaps than 20 miles within the walls, which are of earth; poorly buit, and fo covered with houfes and fhaded with gardens, that in many places it is dificult to difcover them. The Perfians are wont to fay, Spauhawn nifpigehon, 'i. e. Spauhawn is half the world. Chardin fays, that fome reckoned the number of inhabitants at $1,000,000 ;$ but he did not look upon it as more populous than London, or containing more than 600,000 . At a difance, the'city is not eafily diftinguifhed ; many of the ftreets being adorned with plantains, and every houfe having its garden, the whole looks like a wood. The freets in general are neither broad nor convenient ; there being three great evils which attend them: the firf is, that being built on common fewers, thefe are frequently broke up, which is very dangerous, confidering that moft people are on horfeback; the fecond is, that there are many wel!s or pits in them, which are not lefs dangerous; the third arifes from the people's emptying all their ordure from the tops of their houfes : this lall, indeed, is in fome meafure qualified by the drynefs of the air, and by its being quickly removed by the peafants, who carry it away to dung their grounds. Some reckon eight, and others ten gates, befides pofterns; bat all agree that there is no difficulty of entering at any hour of the day or night. The three principal fuburbs annexed to it are, Abas-Abad, built by Shah Abas, and belonging to the people of Tauris; Julfa, inhabited by a colony of Armenians, called by fome Now Yulfa, to diftinguith it from the ancient city of that name, fituated in Armenia, upon the Arames, whence the original inhabitants of New Julfa were brought; and Ghebr-Abad, or, as the Arabs pronounce it, Kebr-Abad, the flreet of the magians, occupied entirely by the profeffors of magifm, or the religion of the ancient Perfians. The river Zenderoud feparates the city of Ifpahan and Abas-Abad from Julfa and Ghebr-Abad. This city has fuffered greatly fince the commencement of the dreadful rebellion in 1721; the whole kingdom from that period, till a few years ago, having been almoft a continued fcene of blood, ravages, and confufion. A celebrated modern traveller, who was on the fpot, tells us, that the inhabitants of Julfa, not many years before the above revolution happened, amounted to 30,000 fouls; had 13 churches, and above 100 priefts; and paid the Perfian court 200 tomans * yearly for the free exercife of * The their religion : that fome of the Streets were broad and man is handfome, and planted with trees, with canals and koned; fountains in the middle; others narrow and crooked, and arched a-top; others again, though extremely narrow, as well as turning and winding many ways, were of an incredible length, and refemoled fo many labyrinths: that, at a frall difance from the town, there were public walks adorned with plane-trees on either hand, and ways paved with flones, fountains, and cifterns: that there were above 100 caravanferas for the ule of merchants and travellers, many of which were built by the Kings and prime nobility of Perfia: that, as little rain fell there, the freets were frequently full of duft, which rendereal the city difagreeable during a

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\｛palan confiderable part of the fummer；that the citizens， however，to make this inconvenience more tolerable， ufed to water them when the weather was warmer than ufual：that there was a catle in the eaftern part of the town，which the citizens looked upon as impregnable， in which the public money，and moll of the military Rores，were faid to be kept ：that，notwithflanding the baths and caravanferas were almoft innumerable，there was not one public hofpital：that molt of the public buildings were rather neat than magnificent，though the great meydan or market－place，the royal palace（which is three quarters of a league in circumference），and the alley denominated Tolier bag adjoining to it，made a very grand appearance ：that the former contained the royal mofque；the building denominated kayserich， where all forts of foreign commodities were expofed to fale；and the mint，ftyled by the Perfins／eraan－khoneh， where the current money of the kingdom was coined： that，befides the native Perians，there were then in Ifpahan above 10,000 Indians all fupported by trade； 20，000 Georgians，Circaffians，and Tartars of Daghe－ ftan or Lefgees，with a confiderable number of Englih， Dutch，Portuguefe，and a few French ：that the Capu－ chins，difcalceated or barefooted Carmelites，Jefuits， Dominicans，and Anflin friars，had likewife their com－ vents here，though they were unable to make any con－ verts；and that there were above 100 mofques and pub－ lic colleges．But fince the fatal period above mention－ ed，the fuburb of Julfa was almoff totally abandoned by the Armenians．The government of Ifpahan，twenty－ ：hree leagues long and as many broad，comprehending feveral difficts，moft of them formerly well peopled， appeared not many years ago little better than a defert； mofl of the inbabitants of that fertile and delightful itact being fled and difperfed．Multitudes of them had taken a precarious refuge in the mountains of Loritan， lying between Ifpahan and Sufter，whofe lands were left untilled，and their houfes monldered into ruins．In thort，all the diftreffes of an unfuccefful war，or the in－ vafion of a barbarous enemy，conld not have plunged the people of Ifpthan into greater mifery than the vic－ tories of their tyrannical king Nadir Shah，who feemed more folicitous to humble his own fubjects tban his ene－ mies．See Persla．
ispida．Sec Alcedo，Ornithology Inder．
ISRAEL，the name which the angel gave Jacob； after having wrefled with him all night at Mahanaim or Penuel（Gen．xxxii．1，2，and 28，29，30，and Ho－ fea xii．3．）．It fignifies a comqueror of God，or a prince of God，or，aecording to many of the ancients，a man who fees God．

By the name of Ifrael is fometimes underfood the perfon of Jacob；fometimes the whole people of Ilrael， or the whole race of Jacob；and fometimes the king． dom of Ifrael，or of the ten tribes，diftinct from the kingdom of Judah．

ISRAELITES，the defcendants of Ifrael；who were at firft called Hebreus，by reafon of Abraham， who came from the other fide of the Euphrates；and afterwards IJraefites，from Ifrael the father of the twelve patriarchs；and lafly Jows，particularly after their return from the captivity of Babylon，becaufe the tribe of Judah was then much flronger and more nume－ rous than the other tribes，and foreigners had fcarcely any knowledge of this tribe．

ISSACHAR，one of the divifions of Paleltine by tribes；lying to the fouth of Zaluulon，fo as by a mar－ row fip to reach the Jordan，betwecn Zabulon and Manaffeh，（Jom．xis．）．But whether it teached to the fea，is a queltion ；forme holding that it did：an affer－ tion not eafy to be proved，as Joflua makes no mention of the fea in this tribe，nor does Jofephus extend is farther than to Mount Carnel；and in Johh．xvii． 10. Ather is faid to touch Manafleh on the north，which could not be if Iflachar extended to the fea．

ISSOUDUN，a town of France，in Berry，which carries on a trade in wood，cattle，cloth，hats，and ftockings；is feated partly on a plain，and pattly on an eminence．E．Long．2．5．N．Lat． 46.57.

ISSUE，in common law，has various applications； being fometimes taken for the children begotten be－ tween a man and his wife－fometimes for profits grow－ ing foom amercements or fines－fornctimes for pro－ fits of lands and tenements－mut more frequently for the point of matter depending in fruit，whereupon the parties join，and put their caufe to the trial of the jury．

In all thefe occafions，ifive has but one fignification， which is，an effect of a caufe preceding；as the etil－ dren are the effect of the marriage between the pa－ rents；the profits growing to the king or lord，from the punifliment of any man＇s offence，are the effer of his trangreefion ；the point referred to the trial of twelve men is the effect of pleading，or procefs．See Pleat and Iflue．

ISSUES，in Surgery，are little ulcers made defign－ edly by the furgeon in various parts of the body，and kept open by the patient，for the prefervation and re－ covery of his health．

ISSUS，now AJazo，a town of Cilicia in Natoiia， with a harbour on the Levant fea，a little to the north of Scanderoon，E．Long．36．25．N．Lat．36． 56.

Near this place，in a difficult pafs between the mountains and the fea，Alexander the Great fought his fecond battle with Darius．One great caufe of the des feat which the Perfians received here was the bad con－ duct of their monarch，who led his numerous forees in－ to a narrow place，where they had not roon to act． Alexander was fo much furprifed whell he firt received the news that Darius was behind him，that he could fcarcely believe it to be true：but when he was tho－ roughly fatisfied of the få，and that Darius had again paffed the river Pinarus，he called a council of war， wherein，without afking any body＇s advice，he only told them，that he hoped they would remember their former actions；and that they，who were always conquerors， were about to fight people who were always beat．Hie further obferved，that Darius feemed to be infatuated， fince he had with fuch expedition quitted an open and champaign country，where his numbers might have act－ ed with advantage，to fight in a place inelofed，where the Macedonian phalanx might be well drawn up，and where his numbers could only incommode him．He then made the neceflary difpolitions for repaffing the mountains，pofted guards where he found them necef－ fary，and then commanded his tronps to refrell them－ $f$ flves，and to take their ref till monning．

At break of day he began to repafs the mountains， obliging his forces to move in clofe order where the road was nartow，and to extend themfeltes as they Z 22
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to the mountain, and the left to the fea-ftore. O:I the right there was a battahion of heavy-armed troops, befides the targetecrs under the command of Nicanor the fon of Parmenio. Next thefe, extending to the piralanx, were the corps of Ccenus and Perdiceas; and on the left the refpective bodies commanded by Amyntas, Ptolemy, and Mieleager. The foot appointed to fupport them were commanded by Craterus; but the whole left wing was committed to Parmenio, with hlict orders not to decline from the fea-fhore, left the Perfians hould furround them. Darius ordered 20,000 fcot and 30,000 horie to retire, finding that hee already wanted room to draw up the reft. His firil line contifted of 30,000 Greek mercenaries, having on their right and left 60,000 heavy-armed troops, being the utmof the ground would allow. On the left, towards the mountain, he pofted 20,000 men, which, from the hollow fituation of the place, were brought quite behind Alexander's right wing. The reft of his troops were formed into clofe and ufelefs lines behind the Greek merccnaries, to the number in all of 600,000 men. When this was done, he fuddenly recalled the horfe who had retired, feading part of them to tak'e poit cri his right againft the Macedonians commanded by Parmenio; and the ref he ordered to the left towards the mountain : but, finding them unferviceable there, he fent the greatell part of them to the right; and then took upon himfelf, according to the cuftom of the Perlian kings, the command of the main body. As foon as Altexander perceived that the weight of the Perfian horfe was difpofed againft his left wing, he difpatched, with as much fecrecy as he could, the 'Theffalian cavalry thither, and fupplied their places on the right by fome brigades of boife from the van, and light-armed troops. He alfo made fuch difpofitions, that, notwithfanding the mighty advantage of the hollow momtain, the Perfians could not furround him. But, as thele precautions had confiderably weakened the centre of his army, he ordered thofe advanced potts on the enemy's left, of which he was molt apprehenive, to be attacked at the rery beginning of the fight; and, when they were eafily driven from them, he recalled as many troops as were neceflary to firengthen his centre.

When all things were in order, Alexander gave frict eommand, that his army hould march very flowly. - Is for Darius, he kept his troops fixed in their polts, and in fome places threw up ramparts; whence the Macedunians rightly obferved, that he thought himfelf already a pifoner. Alexander at the head of the right wing engaged firlt, and without any difficulty broke and defeated the left wing of Darius. But, endeavouring to pafs the river Pinarus after them, his troops in fome meafure lofing their order, the Greek mercenaries fell upon them in tlank, and made them fight, not only for victory, but for their lives. Ptolemy the fon of Seleucus, and 120 Maccdonians of fome rank, were killed upon the :pot. But the foot next to Alexander's right wins coming in feafonably to its relief, fell upon the mercenaries in fiank, amongit whom a dreadful carnage was made; they being in a mamer furrounded by the horfe and light-armed troops, which at firlt purfued tbe Iv ...ing, and the foot that now paffed the river. The I'eriin horfe on the riglat ftill fought gallantly; but, when they were thoroughly informed of the rout of
their left wing and of the deftruction of the Greek mercenaries, and that Darius himfelf was fled, they began to break, and betake themfelves to flight alfo. The Thefialian cavalry purfued them clofe at the heels; and the narrow craggy roads incommoded them exceedingly, fo that vaft numbers of them perilhed. As for Darius, he tled, foon after the left wing was broken, in a chariot with a few of his favourites : as far as the country was plain and open, he efcaped well enough ; but, when the roads became rocky and narrow, he quitted it, and mounting a horfe, rode all the night: his chariot, in which were his cloak and his bow, fell into the hands of Alexander, who carried them back to his camp.

In refpect to the battle of Iffus, Diodorus informs us, that Alexander looked everywhere about for Darius; and, as foon as he difcovered him, with his handful of guards attacked him and the flower of the Perfian army which was about him; being as defirous of obtaining this victory by his perlomal valour, as of fubduing the Perfian empire by the courage of his foldiers. But when Oxathres, the brother of Darius, faw Alesander's defign, and how fiercely he fought to accomplith it, he threw himfelf, with the horfe who were about him, between his brother's chariot and the enemy, where an obftinate fight was maintained, till the dead bodies rofe like an entrenchment about the chariot of Darius. Many of the Perlian nobility were flain, and Alesander himfelf was wounded in the thigh. At latt the horfes in the chariot of Darius Itarted, and became fo unruly, that the king himfelf was forced to take the reins; the enemy, however, preffed fo hard upon him, that he was conftrained to call for another chariot, and mounted it in great danger. This was the beginning of the rout, which foon after became general. According to this author, the Perfians loft 200,030 foot, and 10,000 horfe; the Macedonians 300 foot, and 150 borfe.

Juftin informs us, that the Perfian army confifted of 400,000 foot, and 100,000 horfe. He lays, that the battle was hard fought; that both the kings were wounded; and that the Perfians Rill fought gallantly when their king fied, but that they were afterwards fpeedily and totally souted: he is very particular as to their lofs, which he fays amounted to 61,000 foot, 10,000 horfe, and 40,000 taken prifoners; of the Macedonians he fays there fell no more than 130 foot, and 150 horfe. Curtius fays, that of the Perfians there fell 100,000 foot, and 10,000 horfe : of Alexander's army 504, he fays, were wounded; 32 foot and 150 horfe killed. That we may not fufpect any error in tranfcribers, his own obfervation confirms the fact: Tantulo impendio ingens viCforia fletit, "So fmall was the coft of fo great a victory."

ISTHMIA, or Isthmian Games; one of the four folemn games which were celebrated every fifth year in Grecce. They had the name from the ithmus of Corinth, where they were celebrated. In their firl inftitution, according to Paufanias, they confifted only of funeral rites and ceremonies in honour of Melicertes: but Thefeus afterwarus, as Plutarch informs us, in emulation of Hercules, who had appointed games at Olympia in honour of Jupiter, dedicated thofe to Neptune, his reputed father, who was regarded as the particular protector of the ithmus and commerce of Corinth. The fame trials of aill were exhibited here as at the other
three facred games; and particularly thofe of mulic and poetry. Thcie gamea, in whic! the victor were only rewarded with crarlands of pine leaves, were celebrated with great magnificence and fplendor as long as paganifm continued to be the eltablilhed religion of Greece; ror were they omitted even when Corinth was lacked and burnt by Nammius the Roman general; at which time the care of them was trancferred to the Sicyonians, hat was reffored again to the Corinthians when their city was rebuilt.

ISTHMUS, a narrow neck, or fip of ground, which joins tro continents; or joins a peninfula to the terra firma, and feparates two feas. Sce Penir. sui...

The moft celebrated ifthmules are that of Panama or Darien, which joins North and South America; that of Suez, which connects Afia and Africa; that of Corinth, or Peloponnefus, in the Morea; that of CrimTaitary, otherwile called Taurica Cherfonefus; that of the peninfola Romania, and Erifo, or the ifthmus of the Thracian Cherfonefus, twelve furlongs broad, being that which Xerxes undertook to cut tbreugh. The ancients had leveral defigns of cutting the ifthmus of Corinth, which is a rocky hillock, about ten miles over; but they were all in vain, the invention of llnices being not then known. There have been attempts tow for cutting the ifthmus of Suez, to make a communication between the Red fea and the Mediterranean : but thele alfo failed; and in one of them a king of Egypt is faid to have loft 120,000 men.

ISTRIA, a peninfula of Italy, in the territory of Venice, lying in the nortl part of the Adriatic fea. It is bounded by Carniola on the north; and on the fouth, eaft, and weft, by the fea. The air is umwholefome, efpecially near the coaft; but the foil produces plenty of wine, oil, and paftures; there are alfo quarries of fine marble. One part of it belongs to the Venetians, and the other to the houfe of Autria. Cabo diftria is the capital torn.

ITALIAN, the language froken in Italy. See the article Languige.

This tongue is derived principally from the Latin; and of all the languages formed frosil the Latin, there is none which carries with it more sifible marks of its original than the Italian.

It is accounted one of the mof perfect among the modern torgues. It is complained, indeed, that it has too many diminu:ives and fuperlatives, or rather angmentatives; but without any great reafon: for if thofe words convey nothing farther to the mind than the juft i. ${ }^{2}$ eas of things, they are no more faulty than our pleana!ms and hyperboles.

The language correfponds to the genius of the people, who are flow and thoughtful: accordingly their language runs heavily, though fmoothly; and many of their words are lengtheried out to a great degree. They have a great taffe for mufic; and to gratify their paffion this way, have altered abundance of their primitive words; leaving out confonants, taking in vowcls, foftening and lengthening out their terminations, for the fake of the cadence.

Hence the language is rendered catremely mufical, and fucceeds bever than any other in operas and fome parts of poetry : but it fails in Arength and nervoufnefs; and a great part of its vords, berrowed from the

Latin, become fo far difguifed that they are not eafly italie cha. known again.

The multitude of fovereign fates into which Italy has been divided has given rife to a great number of different dialects in tbat language; which, however, are ail good in the place where they are u'cd. The Iufcan is ufually preferred to the other dialects, and the Ro. man pronunciation to that of the other citics; whence the Italian proverl, Lingua Tofana in bocca Romana.

The lalian is generally pretty well underkood throughout Europe; and is frequently fpoken in Germany, Poland, and Hongary. At Confantinople, in Grecce, and in the ports of the Levant, the Italian is ufed as commonly as the language of the conntry: indeed in thofe places it is not fpoken fo pure as in Tufcany, but is corrupted with many of the proper words and idioms of the place; whence it takes a new name, and is called Frank Italian.
iTALiC cfaracter, in Printing. See Letter.
ITALICA, in Ancient Gcography, a town of Bxtica in Spain, built by Scipio Africanus, after linifhing the Spanih war, for the reception of the wounded foldiers. At firt it was a municipium; efterwards a colony: which was a matter of wonder to the emperor Adrian, the privileges of a municipiom being beyond thofe of a colony (Geliias). Famous for being the birthplace of the emperors Trajan and Adrian, and of the poet Silins Italicus. Now Seailla I'ieja, lcarccly four miles from Seville; a fmall village of Andalufia on the Guadalquivir.-Corfintum in Italy was thus alfo called.

ITALIT, one of the finef conatries of Eurape, lying between 7 and to degrees of E. Long. and between 37 and 46 degrees of N . Lat. On the north, north-selt, and north-eaft, it is bounded by France, Switzerland, the country of the Grifons, and Germany ; on the eaft, by the Adriatic fea or gulf of Venice; and on the fouth and weit, by the Mediterranean; its figure bearing fome refemblance to that of a boot. lis length from Aotia, at the foot of the Alps in Savoy, to the utmoft verge of Calabria, is about 600 miles; but its breadth is sery unequal, being in fome places near 400 miles, in others not above 25 or 30.

Italy was ancientiy known by the names of Sctur-Its different nia, Oenotria, Hefperia, and Rufonia. It was called iames. Satarnia from Saturn; who, being driven out of Crete by his fon Jupiter, is foppofed to have taken refuge here. The names of Oenotrin and Aufonia are borrowed from its ancient inhabitants the Oenotrians and Aufones; and that of He/peria or Weflern was given it by the Greeks, from its fituation with refnect to Greece. The name of Italia, or Ilaly, which in procefs of time prevailed all over the reli, is by fome derised from Iralus, a king of the Siculi: by others, from the Greek word Italos, fignifying an ox; this country abounding, by reafon of its rich paltures, with oxen of an extraordinary fize and bcauty. Alf thefe names werc originally pecculiar to particular provinces of Italy, but afterwards applied to the whole country.

This country, like moft others, was in ancient times Divifion in divided into a great number of ; etty llaics and king ancient doms. Afterwards when the Gauls fottled in the times. wollern, and many Greck culonics in the callern fatt,

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Lualy. it was divided, with refpect to its inhabitants, into three great parts, viz. Gallia Cifalpina, Italy properly fo called, and Magna Gracia. The moft weftern and 1:orthern parts of Italy were in great part poffefied by the Gauls; and hence took the name of Gallia, with the cpithets of Cifalpina and Citerior, becaufe they lay on the fide of the Aips next to Rome; and Tognta, with relation to the Roman gown or drefs which the inhabitants ufed; but this laft epithet is of a much later date than the former. This appeliation was antiçuated ia the reign of Auguftus, when the divifion of Italy into eleven provinces, introduced by that prince, took place. Hence it is that the name of Cifa/pine Gaul frequently occurs in the authors who flourilhed before, and fcarce ever in thofe who wrote after, the reign of Auguflus. This country extended from the Alps and the river Varus, parting it from Tranfalpine Gaul, to the river Aefus; or, as Pliny will have it, to the city of Ancona, in the ancient Picenum. On the north, it was divided from Rhatia by the Alps, called Alpes Rherica; and from Illyricum by the river Formio: but on this fide, the borders of Italy were, in Pliny's time, extended to the river Arfia in Iftria. On the fouth, it reached to the Liguffic fea, and the Apennines parting it from Etruria; fo that under the common name of Cifalpine Gaul were comprehended the countries lying at the foot of the Alps, called by Pliny and Strabo the Subalpine countries, Liguria, Gallia Cifpadana and Tranfpadana. Italy, yroperly fo called, extended, on the coaft of the Adriatic, from the city of Ancona to the river Trento, nots the Fortore; and on the Mediterranean, from the Macrato the Silarus, now the Sele. Magna Grecia comprifed Apulia, Lucania, and the country of the Brutuii. It was called Grccee, becaufe moft of the cities on the coaft were Greek colonies. The inhabitante yave it the name of Great, not as if it was larger than Greece, but merely out of offentation, as Pliny informs us.

All thefe countries were inhabited by a great number of different nations fettled at different times, and from many different parts. The names of the mort semarkable of them were the Aborgines, or thofe whofe origin was utterly unknown, and confequently were thought to have none; the Sabines, Hetrurinns or Tufcans, the Umbri, Samnites, Campani, Apalii, Calabrii, Subdued by Lucarii, the Bruttii, and the Lntins. From a colony the Ro- of the latter proceeded the Romans, who gradually mans. fubdued all thefe nations one after another, and held them in fubjection for upwards of 700 years. All thefe nations were originally brave, hardy, temperate, and well fkilled in the art of war; and the Romans much more fo than the reft. Their fubjection to Rome, however, inured them to flavery; their oppreftion by the emperors broke their firit; and the valt wealith which was poured into the country from all parts of the world, during the time of the Roman profperity, corrupted their marnacrs, and made them degenerate from their former valour. Of this degeneracy the barbarous nations of the north took the advantage to invade the empire in innumerable multitudes, 'Though often repelled, they nover failed to return; and it was found ncceliary to take great numbers of them into the Roman fervice, in order to defend the empire againf the reft of their countrymer.

In the year $47^{\circ}$, the Heruli, prefuming on the fervices they had done the empire, demanded a third part of the lands of italy; and being refufed, chofe one Oivacer, a man of low birth, but of great valour and ruli, expericnce, for their king; and having totally defiroyed the remains of the Roman empire, proclaimed Otoace: ling of Italy. 'The new monarch, however, did not think proper to alter the Roman form of government, but fuffered the people to be governed by the fenate, confuls, \&c. as before. He enjoyed his dignity in peace till the year 488 , when Zeno, emperor of Contantinople, being bard prelled by Theodoric king of the Olirogoths, advifed him to turn his arms againft Odoacer, whom le could eafily overcome, and thus make himfelf fovereign of one of the fineft countries in the world.

Theodoric accepted the propofal with great joy, Invaded and fet out for Italy, attended by an infinite number The Oftre of people, carrying with them their wives, children, the Ofth. and cfiects, on waggons. Several Romans of great diftinction attended him in this war; while, ois the other haud, many of his countrymen chofe to remain in Thrace, where they became a feparate nation, and lived for a long time in amity with the Romans. The Goths, being deftitute of fhipping, were obliged to go round the Adriatic. Their narch was performed in the depth of winter; and during the whole time, a violent famine and plague raged in their arniy. Tbey were alfo oppofed by the Gepidx and Sarmatians; but at laft having defeated thefe enemies, and overcome cyery other obflacle, they arrived in Italy in the year 489 . Theodoric advanced to the river Sontius, now Zonzo, near Aquileia, where ke halted for fome time to refrefh lis troops. Here he was met by Odoacer at the head of a ve:y numerous army, but compofed of many different nations commanded by their refpective chiefs, and confequently without fufficient union or zeal for the common caufe. Theodoric therefore Odoacer gained an eafy victory, cut many of his enemies in pie-feated. ces, and took their camp. Odoacer retired to the plains of Veroria, and encamped there at a fmall diflance from the city ; but Theoderic purfued him clofe, and foon forced him to a fecond engagement. The Goths obtained another vicfory; but it cof them dear. Odoacer's ment made a much better refiftarice than before, and great numbers fell on both fides. The victory, however, was fo far decifive, that Odoacer was obliged to flut himfelf up in Ravenna; fo that Thcoloric having now no enemy to oppofe him in the field, befieged and took feveral important places, and among the reft Milan and Pavia. At the fame time, 'Tufa, commander in chief of Odoacer's forces, deferted to the enemy with the greateft part of the troops he had with him, and was immediately employed in conjunction with a Gothic otficer in purfuit of his fovereign. Odoacer had left that city, and was advanced as far as Faenza, where he was clofely befieged by Tufa; but the traitor, declaring again for his old mafter, joined him with all his troops, and delivered up feveral officers that had been appointed by Theodoric to ferve under him. Thefe were fen: in irons to Ravenna; and Odoacer being joined by Fridcric, one of Theodoric's allies, with a confiderable body of troops, once more advanced againf his enemies. He recovered all Liguria, took the city of

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Ytaly. Milan, and at lait befieged Theodoric himfelf in Pavia. The Goths, having hrought all their families and effects along with them, were greatly diftreffed for want of room; and muft have undoubtedly fubmitted, if their enemies had continued to agree among themfelves. The quarrels of his followers proved the ruin of Odoacer. Theodoric finding that the enemy semitted the vigour of their operations, applicd for fuccours to Alaric king of the Viligoths, who had fettled in Gaul. As the Vifigoths and Oftrogothe were originally one and the fame nation, and the Vifigoths had seceived among them fome years before a great number of Oftrogoths under the conduct of Videmer coulin-german to 'Theodoric, the fupplies were readily granted. The inaction of the enemy gave thefe fuccours time to arrive; upon which Theodoric inflantly joined them, and marching againit his enemies gave therri a total overthrow. Odoacer again took refuge in Ravenna, but was clofely befieged by Theoüoric in 49. The fiege latted three years; during which O doacer defended himfelf with great bravery, and greatly annoyed the befiegers with his fallies. Theodoric, however, impatient of delay, learing part of his army to blockade the city, marched with the reft againlt the ffrong holds which Odoacer had garrifoned. All the ${ }^{f}$ e he reduced with little difficulty; and in 492 returned to the fiege of Ravenna. The befieged were now reduced to great itraits both by the enemy without and a famine within, the price of wheat being rifen to fix pieces of gold per buthel. On the other hand, the Goths were quite worn out with the fatigues of fuch a long fiege; fo that both parties being willing to put an end to the was, Odoacer fent John bifhop of Ravenna to Theodoric with terms of accommodation. Jornandes informs us, that Odoacer only begged his life; which 'Theodoric bound himfelf, by a folemn oath, to grant him: but Procopius fays, that they agreed to live together on equal terms. This laft feems very improbable : but whatever were the terms of the agreement, it is certain that Theodoric did not keep them; for having a few days after invited Odoacer to a banquet, he difpatched him with his own hand. All his ferwants and relations were maffacred at the fame time : except his brother Arnulphus, and a ferw more, who had the good luck to make their efcape, and retired beyond the Danube.

Thus Theodoric became mafter of all Italy, and oclaimed took upoa himfelf the title of king of that country, as ag of Ita-Odoacer had done before; though, with a pretended , and ufs deference to the emperor of Conltantinople, he fent meffengers afking liberty to affume that title after he had actually taken it. Having fecured his new kingdom as well as he could by foreign alliances, Theodoric next applied himfelf to legifation, ant enasted many falutary laws befides thofe of the Romans which he retained. He chofe Ravenna for the place of his refidence, in order to be near at hand to put a fop to the incarfions of the barbarians. The provinces were governed by the fame magifrates that had prefided over them in the times of the emperors, viz, the confofares, correctors, and prafides. But befides thefe, he fent, according to the cuftom of the Goths, inferior judges, diftinguifhed by the name of counts, to each city. Thefe were ta adminifter juftice, and to decide all controverfies and difputes. And herein the polity
of the Goths far excelled that of the Romans. Ficr i:s Itiy. the Roman times a whole province was governed by a confularis, a corrector, or a prefes, who refided in the chief city, and to whom recourfe was to be had at a great charge from the molt remote parts: but Ihcodoric, belides thefe officers, appointed not only in the principal cities, but in every fmall town and village, inferior magiftrates of known integrity, who were to adminitter juftice, and by that means fave thofe who had law-fuits the trouble and expence of recurring to the governor of the whole province; no appeals to diflant tribunals being allowed, but in matters of the greateft importance, or in cafes of manifeft injullice.

Under the adminiftration of "Theodoric Italy enjoy. ed as great happinefs as had been experienced under the very beft emperors. As he had made no alteration in the laws except that above mentioned; fo he contented himfelf with the fame tributes and taxes that had been levied by the emperors; but was, on all occafions of public calamity, much more ready to remit them than moft of the emperors had been. He did not treat the natives as thofe of the other Roman provinces were treated by the barbarians who conquered them. Thefe fripped the ancient proprietors of their lands, eftates, and poffeffions, dividing them among their chiefs; and giving to one a province with the title of duke, to another a frontier count:y with the title of marquis ; to fome a city with the title of counh, to others a caftle or village with the title of $b$ mon. But Theodoric, who piqued himfelf upon governing after the Roman manner, and obferving the Roman laws and inflitutions, left every one in the full enjoyment of his ancient property. As to religion, though he hindelf, like moft of his countrymen, profefled the tenets of Arius, he allowed his fubjects to profefs the orthodor doctrine without moleftation, giving liberty even to the Goths to renounce the doctrines in which they had been educated, and embrace the contrary opinions. In fhort, his many virtues, and the happinefs of his fubjects, are celebrated by all the hiftorians of thofe times. The end of his reign, however, was fullied by the death of the celebrated philofopher Boethius, and his father-in-law Symmachus. 'They were both behcad- Beneads ed in Pavia, on an unjult fufpicion of treafon; and Duethius farce was the fentence put in execution when the king machus, repented, and abandoned himfelf to the moft pungent and dics of forrow. The excefs of his grief afected his underlland-grief. ing: for not long after, the head of a large filh being ferved up to fupper, he fancied the head of the filh to be that of Symmachus threatening him in a ghatly manner. Hereupon, feized with horrur and amazcment, he was carried to his bed-chamber, where he died in a few days, on the 2 d of september 526.

After the death of Theodoric, the kingdom devolved to Athalric his grandfon; who being at that time only eight years of age, his mother Amalafintha took upon her the regency. Her adminifration was equally upright with that of "Theodoric himelf; but the barbarians of who:n her court was compofed, finding fault amalafunwith the encouragement fire gave to learming, forced tha the reher to abandon the education of her fon. The latter gent gother anged ine all maner of wiek thereupon plunged into all manner of wiek:adnels, and cably.
behaved to his mother with the greatef arrogance; aud, the faction finding themfelves thus frengthened, at lait commarded the queen to ratire from court.

Amalafuntha,

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A malafuntha, exerting her authoritr, feized three of thee 1 :mgleaders of the fedition, whom the confined in the mof remote parts of Italy. But thefe maintaining a fecret correfpondence with their friends and relations, never ccafed to tir up the people againft her; a:fomuch, that the queen, apprehending that the faction mioht in the end prevail, wrote to the emperor Jufinian, begging leave to take refuge in his dominions. The emperor readily complied with her requelt, offering a noble palace at Durazzo for her babitation; but the queen having in the mean time caufed the three ringleaders to be put to death, and no new difturbances arifing thereupon, the did not accept of the emperor's offer. In 533, Athalsic having contracted a lingering dilfemper by his riotous living and debaucheries, Amalafuntha, to avoid the calamities with which Italy was threatened in cafe of his death, furmed a defign of delivering it up to Juftinian: but before her fcheme was ripe for execution, Athalric died. Upon which the queen took for her colleague one Theodotus her coufin; obliging him, however, to fuear that he ${ }_{11}$ would fuffer her to enjoy and exereife her former power. Is treacher- This be very readily did, but foon forgot his promife; oufly impri- and when lie took the liberty to semind him of it, foned, ard put to death; caufed leer to be feized and confined in an inland of the lake Bolfena in Tufcany. But as Theodotus had great reafon to believe that this conduf would be refented by Jultinian, he obliged ber to write to him that no injury or injuftice had been done her. Along with this letter be fent one written by himfelf, and filled with heavy complainss againil Amalafuntha. The emperor, however, was fo far from giving credit to what Theodotus urged againft her, that he openly efpoufed her caufe, wrote her a moll affectionate leiter, ant afo fured her of his protection. But before this letter could reach her, the unhappy princefs was !rangled in the bath by the friends of thofe whom in the reign of her fon the had defervedly put to death for raifing ditlurbances in the flate.

On the news of Amalafuntha's death, Juftinian refolved upon an immediate war with the Goths; and, to facilitate the enterprife, ufed his utmoll endeavours to induce the Franks to affill him. To his folicitations he added a large fum of money; which laft was very acceptable to his new allies. They promifed to affilt the emperor to the utmoft of their power; but inftead of performing their promife, while Juftinian's arms were employed againft the Goths, Thierri, the eldefl fon of Clovis, feized on feveral cities of Loiguria, the Alpes Cottiæ, and great part of the prefent territory of Venice, for himlelf. Juftinian, however, found fufficient refuarces in the valour of Belifarius, notwithftanding the defection of his treacherous allies. This celebrated general was vefted with the fupreme command, and abfolute authority. His inftructiuns were to pretend a voyage to Carthage, but to make an attempt upon Sicily; and if he thought be could fucceed in the attempt, to land there; otherwife to fail for Africa, without difcovering his intentions. Another general, named Mundus, commander of the troops in Illyricum, was ordered to march into Dalmatia, which was fubject to the Goths, and attempt the reduction of Salonx, the better to open a paffage into Italy. This he accomplighed without difficulty, and Belifarius made himfulf maftes of Sicily fooner than be
himfelf had expected. The illand was reduced on tlie laft of December 535 ; upon which Belifarius, without lofs of time, patted over to Reggio, which opened its gates to him. From Reggio lie purfued his march to Rome, the provinces of Abrutium, Iourania, Pug. lia, Calabria, and Saminium, readily fulmitting to him. The city of Naples endured a fiege : hat Delifarius entered in though an aqueduct, and gave it up, to be plundered by his foldiers.

Theodotus alarmed at thefe fucceffes, and having neither capacity nor irclination to carry on the war, fent ambalfadors to Juftinlan with propofals of peace. He agreed to renounce all preterfions to the ifland of Sicily; to fend the emperor ycarly a crown of gold weighing 300 pounds; and to fupply him with 3000 men whenever be fhould think proper to demand them. Several other articles were contaned in the propofal, which amounted to the owning of Juninian for his lord, and that he held the crown of Italy only through his favour. As he apprehended, however, that thele soffers might not yet be fatisfactory, he recalled his ambalfadors for further orders. They were now de. fired to inform Juftinian, that rheodotus was willing to refign the kingdom to him, and content himfelf with a pention fuitable to his quality. But he obliged them by an oath not to mention this propofal, till they found that the emperor would not accept of the other. The firf propolals were accordingly rejected as incy had fuppored; upon which the amballadurs produced the fecond, figned by Theodotus himfelf, who in his letter to the empesor told bim, among other things, that being unacquainted with war, and addicted to the ludy of philofoplay, be prefersed his quiet to a kingdom. Juffinian, tranfoorted with joy, and imagining the war already finibed, anfwered the king in a moft ubliging manner, extolling bis wifdom, and giving him befides what he demanded the greateft honours of the empire. The agreement being confirmed by mutual oaths, lands were affigned to Theodotus out of the king's domain, and orders were difpatched to Belifarius to take poffeffion of Italy in his name.

In the mean time, a body of Goths having entered Dalmatia, with a defign to recover the city of Salona, were encountered by an inferior army of Romans, commanded by the fon of Mundus above mentioned. The Goths proved victorious; and the young gencral of the Romans was killed, and moft of his army cut in pieces. Mundus marched againft the enemy to revenge the death of his fon ; but met with no better fuccefs, his troops being defeated, and he himfelf killed in the engagement. Upon this the Romans abandoned Salonæ and all Dalmatia; and Theodotus, ela- Theodo ted with his furcefs, refufed to fulfil the articles of the refufes; treaty. Juttinian difpatched Contlantianus, an officer of great valour and experience, into IIJyricum, with or artiectes ders to raite forces there, and to enter Dalmatia; at the fame time he wrote to Belifarius to purfue the war with the utmon vigour.

The Gotlis were now reduced to the greatef flraits. Conftantianus drove them out of Dalmatia; and Belifarius having reduced all the prorinces which compofe the prefent kingdom of Naples, advanced towards Rome. The chief men of the nation, finding their king incapable of preventing the impending ruin, af- fembled without his confent, and diipatched ambaf fadors to Belifarius with propofals of peace. Thefe propofals were rejected; and Belifatius retumed for anfwer, that he would hearken to no terms, nor fheath his ford, till Italy was reannexed to the empire to which it belonged. The Goths fiading Theodotus ftill inative, unanimoully depofed him; and chofe in his itead one Vitiges, a man of great valour, but of a mean defcent. Theodotus tled to Ravenna; but the new king difpatched after him a melfenger, who foon overtook him and cut off his head.

Vitiges began his government by writing a circular letter, in which he exhorted his counttymen to exert their ancient courage, and fight bravely for their lives and liberties. He then marched with what forces he could collect towards Rome; but not thinking himfelf able to defend that city againft the Roman forces, he abandoned it to Belifarius, and arriving at Ravenua was joined by the Goths from all parts, fo that he foon found himfelf at the head of a confiderable army. Belifarius in the mean time entered Rome without oppofition, on the gth or Ioth of December 537. The Gothic garriton retired by the Porta Flaminia, while Belifarius entered by the Porta Afmaria. Leudaris, governor of the city, who ftaid behind, was fent, toget?er with the keys, to the emperor. Belifarius immediately applied himfelf to the repairing of the walls and other fortifications; filled the granaries with corn, which he cauled to be brought from Sicily; and ftored the place with provifions, as if he had been prenaring for a fiege; which gave no fmall uneafinefs to the inhabitants, who chofe rather that their city thou'd lie open to every invader, than that they fhould be liable to the calamities of a fiege. While Belifarius was thas employed at Rome, the city of Benevento, with great part of the territory of Samnium, was delivered up to h:m: at the fame time the cities of Narnia, Spoleto, and Peruia, revolting from the Goths, received Roman garrifons; as did moft of the cities of Tufcany.

In the mean time, Vitiges haring collected an army of 150,002 men, rcfolved to march directly to Rome, and engage Belifarias ; or, if he declined an engagement, to lay fisge to the city. But apprehending that the Franks, who were in confederacy with the emperor, might fall upon him at the fame time, he fent ambaffaclors to them, with offers of all the Gothic polfelfions in Gaul, befides a confilerable fum of money, provided they joined him againt the emperor. The Franks with their ufual treachery confented to the propofal, received the money and the territories agrced on, and then refufed to fulbl the terms of the treaty. Vitiges, however, began his march to Rome, leaving behind him all the fortified towns on the road, the reduction of which he knew would coft him too much trouble. Belifarius, whofe army, reduced by the many towns he had garrifoned, did not now amount to abore 5000 men, difpatched meffengers to Conftan. tianus in Tifeany; and to Belfas, hy nation a Goth, but of the emperor's party, in Umbria, with orders to join him with all polfible expectition; writing at the fame time to the empernr himfelf for fupplies in the moft preffing manner. Conflantiants inined him purfuant to his orders; and fron aher, Bellas, fall. ing in with part of the enemy's vanguard, killed a

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confiderable number of them, and put the reft to flight. Belifarius had built a fort upon a bridge about a mile from Rome, and placed a floong garrifon in it to dilpuie the paflage with the enemy; but the garrifon, feized with a paric at the approach of the Goths, abandoned their polt in the night, and fled into Campania. Early in the morning Vitiges palled over great part of his army, and marclied on till be was met by: Belifarius, who, knowing nothing of what had happened, came sith 1000 horfe to view the ground about the bridge. He was greatly furprifed when he onfimate ${ }^{17}$ beheld the enemy marching up ag inft hism; however, engugelett he thould heighten their courage by his light or ring be-1 retreat, he flood his ground, and received the cnemy at tween the the head of his fmall body, expofing himlelf, without Coths and his ufual prudence and difcretion, to the greateft dangets. Being known by fome fugitives, and dicovered to the enemy, they all aimed at him alone, which rhade his own men the more folicitoun to defend him; fo that the whole contell was for fome time about his perfon. At laft the Goths were driven back to their camp, which the Romans with great temerity attempted to force. In this :ittempt, however, they met with fuch a rigorous refiftance, that they foon aband ned the enterprife, and retired with precipitation to a neiglabouring eminence; whence they were forced down by the enemy: put to flight, and purfued to the jery gates of the city. Here they were in greater danger that1 ever; for thofe within, fearing that the enemy might in that confufon enter with them, refufed to adinit them. The genera! himfelf cried out earneflly to them, telling who he was, and commanding them to open the gates; but as they had teen informed by thofe who firf fled, that he was thain, and they could not difinguith him on account of the blood and duft with which his face was covered, they gave no ear to what he faid. In this extremity, having encouraged his men, who vere now driven into a narrow compa!s, to make a laft effort, he put himele at their head, and attacked the enemy with fuch fury, that the Goths imagining frefh troops were fallying cut upon them, began to give ground, and at lat retired to their camp. The Roman general did not purlue them; but catered the city, where he was received with lowd acclamations.

A few days after, the city was clofely inveffed by Rome be Vitiges; who, to dittref, the inhabitante, pulled down ite a by the aqueducts by which water was conveyed into the the Goths, city, and which had been built at an inmenfe charge by the Roman emperors. Belifarius on his part cmitted nothing for his defence; infonuch that the corvardly citizens affem led in a tumultuous manner, and railed at the general on account of his fippofed temerity. Vitiges, to encourage this mutinous difpolition, difpatched ambaffadors to the fenate with propofals of peace. Thefe ambaffddors, hoswcuer, were difmiffed without any anfwer, and lhe fiege was begun with great vigour. Belifarius ma3e a gallant defence, and in feven monthe is faid to have de! royed 40,020 of the Goths. About this time he received a fupply of 1600 archers from the emperor; and thefe, in feveral fuccefsful fallies, are faid to have killed 4000 more of the enemy.

The Ron ans, clated with their fucceffes, now became impatient for an engagement ; and at laft not3 A
nithfanding withilanding all the rementrances of their general, forced hisn to lead them out againft the eneny. The fucce's was anfiwerable to the rath attempt. The Romans were defeated, with the lofs of fome of their bravelt othicers, and a great many of their common foldiers; after which they contented themfelves with fallying out in fmall parties, which they commonly did with the greateft fuccefs.

But though the Romans had the fatisfaction of thus cutting of their enemies, they were molt grievoully aflined with a famine and plague; infomuch that the inhabitants, no longer able to bear their calamities, were on the foint of forcing Belifarius to venture a fecond battle, when a feafonable fupply of troops, viz. 3000 Ifaurians, 800 Thracian horfe, and 1300 horfe of other nations, together with 500 Italians who joined them ly the way, arrived at Rome. Belifarius immediately lillied out by the Faminian gate, and fell nuors the Goths in order to give his allies time to enter by the oppolite fide of the city, which they did without the lofs of a man.-Whe Goths hearing of the arrival of thefe troops, and their numbers being magnified as is ufual in fucb cafes, began to defpair of becoming mallers of the city; efpecially as the famine and plague raged with great violence in their camp, and their army was much reduced. A mbafladors were therefore difpatchet to Belifarius with propofals of peate; but the only thing they conid obtain was a ceffation of arms for three months, during which time they might fend ambalfadors to the emperor. The negociations with the emperor, however, proved unfuccefstul ; and the diege was purfued with great vigour till Vitiges received the news of the taking of Rimini by the Romans. As this city was but a day's journey from Ravenna, the Goths were fo much alarmed, that they immediately raifed the fiege of Rume, after it lad contimed a year and nine days. Belifarius fell upon their rear as they pafed the bridge of the Tiber, and cut great numbers of them in pieces, while others, ftruck with a pance, threw themfelves into the river and were drowned.

The firlt enterorife of Vitiges, after raifing the Acce of Rome, was an attempt upon Rimini; but while he was employed in this liege, the Romans made themfelves mafters of Milan; upon which a Gothic general, named Uraia, was immediately difpatched with a powerful army to retake it. In the mean time, however, a fupply of 9000 Romans arrived from the cim. sire, under the command of Narfes, a celebrated general. The immediate confequence of this was the raing of the diege of Rimini ; for Vitiges perceiving the two Ronan armies coming againt him, and concluding, from the many fires they made, that they were much more mumerous than they ically were, lied in fuch hatte, that the greatef part of the baggage was left behind. The confufion of the Goths was fo great, that, had not the garrifon been extromely feeble, they might have eafily cut the of of in their retreat, and thus put an end to the war at once. The fuccefs of thee Romans, however, was now retarded by fome mifunderllandings between the two generals: fo that, thongh Betifanius male himfelf mater of Urbinum and Urbiventum, while Narfes reduced fome other places, yet the impertant city of Milan was fuffered to fall into the hands of the Goths, who maffacred all the inhabi-
tants that were able to bear arms, to the number of Italy. 300,000 , and fold the women for llaves. "The city was allo totally dermolimed; and this difather made fuch an impreffion on the mind of Julinian, that he immediately recalled Narfes, and gave the coumand of his troops to Belifarius.

Vitiges, who had promifed himfelf great advantages from the difagreement of the two generals, was much difappointed by the recall of Narles: and therefore dreading the power of Belifarius when at the head of a formidable army, thought of engaging in alliance with fome foreign prince. In his choice, however, he was fomewhat at a lofs. He knew the treachery of the Franks, and therefore did not apply to them. He applied to the Lombards; but, though tempted by the offer of a large fum of money, they continued inviolably attached to the Roman intereft At laft he found means to perfuade Chofroes king of Perfia to make war upon Jultinian, which he thought would infallibly procure the recall of Belifarius. But the Roman general, underftanding his defign, puhhed on the war in the moll vigorous manner; while, in the mean time, the treacherous Franks, thinking both na-fuaty inva tions fufficiently weakencd by their mutual hoftilities, ed by the refolved to attack both, and feize upon the country fratis. for which they contended. Accordingly, Theodebert, unmindful of the oaths he had taken both to the Goths and Romans, paffed the Alps at the head of 150,000 , or, as fome will have it, $200,000 \mathrm{men}$, and entered Liguria. As no hotilities were committed by them on their march, the Goths concluded that they were come to their affiftance; and thertfore took care to fupply them with provifions. Thus they crofsed the Po without oppofition; and having lecured the bridge, marched towards the place, wherc a body of Goths was encamped; who, looking upon them as friends, admitted them without befitation. But they were foon convinced of their miltake; for the Franks falling unexpectedly upon them, drove them out of the camp with great llaughter, and feized on their baggage and provifions. A body of Romans that lay at a fmall diliance from the Goths concluding that they had been defeated by Belifarius, advanced with great joy to meet him as they imagined; but the Franks lalling unawares upon them, treated them as they had done the Gotlis, and made themfelves malters of their camp. 'Thus they acquired a very conliderab'e booty and ftore of provifions; but the latter being foon confumed, and the countiy round about quite exhaufted, vatt numbers of the Franks perilhed; fo that Theodebert at laft found himfelf obliged to return. In his way he deflroyed Genoa and feveral other places, and arrived in his own dominions loaded with booty.

In the mean time, LAlifius was making great pro-Succefs of grefs. He took the cities of Auximum and Fafilx 3elifarius. after an obltinate figeg ; the inhabitants of the former having for fome time fed on grafs before they would furrender. After this he invelted Ravenna, the capital of all the Gothic dominions in Italy. The place was defended by a very numerous garrifon, commanded by the king in perfon, who exerted all his bravery in the defence of his metropolis. As the fiege, however, was pulled on with great vigour, it was evident that the city mutt at lafl fubmit; and the great fuccefles of the Romans began to give jealoufy to the neighbouring
potentates.

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[taly. potentatec. Theotebert king of the Franks offered to aflill Vitiges with an army of 500,000 men ; but Beiifarius, being informed of this negociation, fent ambafladors to Vitiges, putting him in mind of the treachery of the Franks, and affured him that the cmo peror was ready to grant him very honourable terms. The king, by the advice of his counfellurs, rejected the alliance of the Franks, and fent amballadors to Comfantinople; but in the mean time, Belifarius, in order to bring the citizens to his own terms, bribed one of them to fet fire ta a magazine of com, by which means the city was foon itraitened for want of provilions. But, notwithfanding this difaller, they flill continued to hold out, till the arrival of the ambafladors from Conllantinople, who brought very favourable terms. Thefe were, That the country beyond the Po, with refpect to Rome, fhould remain to the Goths; but that the refl of ftaly fhould be yielded to the emperor, and the royal treafure of the Goths thould be equally divided between him and the king. 'Jo thefe conditions, however, Belifarius pofitively refufed to affent ; being defirous of leading captive the king of the Goths, as he had formerly done the king of the Vandals, to Conftantinople. He therefore purfued the fiege with more vigour than ever, without hearkening to the complaints of his foldiers and officers, who were quite tired out with the leagth of the fiege: he only obliged fuch of the officers as were of opinion that the town could not be taken, to exprefs their opinion in writing, that they might not deny it afterwards.

The Goths were as weary of the fiege -s the Romans; but fearing left Juftinian fhould tranfplant them to 'Thrace, formed a refolution, without the coinfent of their king, of furrendering to Belifarius himfelf, and declaring him emperor of the wef. To this they were the more encouraged by the refufal of Belifarius to agree to the terms propofed by the emperor; whence they conciuded that he defigned to revolt, and make himfelf emperor of Italy. Of this, however, Beifatius had no defign; but thought proper to accept of that title, in order to accelerate the furrender of the city, after acquainting his principal officers with what had paffed. Vitiges at laf difcovered the plot; but fiading himfelf in no condition to oppofe it, he commended the refolution of his people, and cven wrote to Belifarius, encouraging him to take upon him the title of king, and affuring him of his affilance. $\mathrm{U}_{\mathrm{p} \text { on }}$ this Belifarius prefied the Goths to furrender; which, however, they dilil refufed, till he had talien an oath that he would treat them with humanity, and maintain them in the poffeffion of all their rights and privileges. He was then admitted into the city, where he conducted himfelf with great moderation towards the Goths; but feized on the royal treafure, and fecured the perfon of the king. The Roman army, when it entered Ravemia, appeared fo very inconfiderable, that the Gothis women on beholding it could not forbear fpitti.g in the faces of their luufands, and reviling them as cowards.

The captivity of Vitiges, and the capturc of Ravenna, did not terminate the war. Belifarius was foon after recalled to talie the command of the army i:n the eafl. The Goths were greatly furprited that he foryld leave his netw bingdoin out of regard to the
orders of the emperor; but, after his departure, chiofe Italy. one Ildebakl, a man of great experience in affairs buth civil and military, for their king. Ife revived the drooping firits of his countrymen, defeated the Romans, and reduced all the proviace of Venetia; hut was in a thort time murdered, and Esaric, a Rugian, fucceeded to the throne. He was farcely inveiled with the fovercignty, when his futbjects begaan to think of depofing lim, and raifing 'I otila to the throne; which the latter accepted, upen condition that they previoufly difpatched Eraric. This was accordingly done; after which To ila was proclaimed king of ftaly in the year $54^{2}$.

The ne:v king proved a very furmidable enemy to suceefs oi the Romans, who now lolt grouid e:erywhere. They Totiva amade an attempt on the city of Verona; in which aiment the they mifcartied through their own avarice, having difputed anout the divifion of the plunder till the opportuaity of taling the town was pafl. They were next defeated in two oloody engagements; the confequence of which was, that the Goths made themfelves unalters of all the frong places in Tufany. From thence marching into Campania and Samnium, they reduced the elrong town of Beneventum, 'and laid fiege to Naples. During the fiege of this laf place, leverai detachments were fent from the king's army, which took Cumx, and recovered all Brutia, Lucanis, Apulia, and Calabria, where they found confiderable fums which had been gathered for the enperor's ufe. The Romans, in the mean time, difleartened by their loffes, and deprived of thofe fums which thould have paid their wages, refufed to take the field. A confiderable 月lect was therefore fent by Jufinian to the relief of Naples: but Totila, having timely notice of this defign, manned, with incredible expedition, a great number of light veffels; which, falling unexpeatedly on the Roman flet, took or funk every flip, and made prifoners of all on board, excepting a feew who efcaped in their boats. A fimilar fatt attended another fleet difpatched from Sicily for the fame purpofe. They put to fea in the depth of winter; and, meeting with a violent florm, were driven afhore near the enemy's camp; who funk the hips, and made what llaughter they pleafed of the feamen and foldiers. Upon this fecond difaller, the Neapolitans, defpairing of further relief, fubmitted to Totila; who granted them lhoncurable tems, and treated them with great humanity. As they had been long pinched with famine, Totita, apprehending they might endanger their lives by indulging their appetites too much at firf, placed guards at the gates to prevent their going out, taking care at the fame time to fupply them fparingly with provifions, but increafing their allowance every day. Being thus by degrees rellored to their former frength, he ordered the gates to be fet open, and gave every one full liberty to flay in the city or remove as he thought fit. The garrifon be treated with extraordinary kindnefs. They were firt fupplied with 何ips to carry them to Confantinople; but the king laving difcovered that their real defign was to fail to Rome, in order to reinforce the garrifon of that rity (which they knew he was foon to befiege), he was fo far from punithing them as they expected, that he furnihed them with horfee, waggons, and provifions, and ordered a body of Goths to efcort them to Rome by

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land, as the winds had proved un!ay our dible for the ir palfage by fea.

Totila having thus become mafter of Naples and moft of the other fortrefies in thele parts, began to think of reducin Rome alfo. He firl attempted to perfuade the citizens to a furrender: but finding his perfuafions ineffectual, he fent a detachmeat of his army into Calabria to reduce Otranto, which had not yct fubmitted; after which, he marched with the ref of his forces againf the towns in the neighbourhood of Rome. The city of Tibur, now Tivoli, about 18 miles from Rome, was betrayed to him ; and all the inhabiants, together rith their bilhop, were put to the fword. Several other ftrong holds in the neighbourhood of that city he took by florm; fo that Rome was in a manner blocked up by land, all communication with the neighbouring country being cut off.

Juftinian, in the mean time, being greatly perplexes by the bad neirs he every day received from Italy, secalled Belifarius from Perfia, notwithftanding the feccefs which attended him there. To fave Rome, however, was now impoffible even for Belifarius himfelf. As foon as he arrived in Italy, finding himfelf anable either to relieve the towns which were befieged, or to ftop the progrefs of the Goths, be difpatched letters to Jutinian, informing him, that being deflitute of men, arms, and moncy, it was impolfible for him to profecute the war; upon which the emperor ordered new levies to be made, all the veterans being engaged in the Perfian war. In the mean time, however, Totila purfued his good fortune; took the cities of Firmum, Afculum, Auxinum, Spoletum, \&c. and
at length advanced to Rome, which he invelted on all fides. As he drew near the city, two officers, whom Belifarius had fent into the city, ventured to make a fally, though contrary to the exprefs orders of their general, thinking they flould furprife the Goths; but they were themfcives taken in an ambufcade, and, moft of their men being cut in pieces, narrowly efcaped falling into the hands of the enemy. Belifarius made feveral attempts to relieve the city : but all of them, however well concerted, by fome accident or other proved unfucceffful ; which gave him fo much uneafinefs, that he fell into a feverift diforder, and was for fome time thought to be in danger of his life. The city was foun reduced to great ftraits; a dreadful famine enfued; and the unhappy citizens having confumed every thing that could be fuppofed to give them nourifhment, even the grafs that grew near the walls, were obliged, it is faid, to feed on their own excrements. Many put arr end to their lives, in order to free themfelves from the intolerable calamities they fuffered. The reft addrefled their governor Beffas in the mof pathetic manner, intreating him to fupply them with food; or if that was not in his power, either to give them leave to go out of the town, or to terminate their miferies by putting them to death. Beffas replied, that to fupply them with food was impoffible; to let them go, unfafe; and to kill them impious. In the end, however, he fuffered thofe who were willing to retire, to leave the city, upon paying him a fum of money; but moff of them eithcr died on the road, or were cut in pieces by the enemy. At laft, the befieged, unable to bear their miferies any longer, began to mutiny, and to prefs their governor to come to an agseement with

Totila. This, however, he fill refufed; unon which, four of the Ifaurians who guarded one of the gates, went privately to the camp of I'ctila, and offered to admit him into the city. 'lhe king received this propofal with great joy ; and fending four Goths of great ftrength and intrepidity into the town along with them, he filently approached the gates in the nighttime with his whole army. The gates were opened by the Ifaurians, as they had promiled; and upon the firf alarm, Beflas with molt of the foldiers and officers fled out of the town. The inhabitants took fanctuary in the churches; and only 60 of them and 26 foldicrs were killed after the town was taken. Totila, howerer, gave his foldiers full liberty to plunder the city : which they did for feveral days together, flripping the inhabitants of all their wealth, and leaving nothing in their houfes but naked walls; by which means many perfons of dittinction were reduced to leg their bread from door to door. In the houfe of Beffas was found an immenfe treafure, which he had fcandaloutly amafed during the fiege, by felling to the feople, at an exorbitant price, the corn which had been fored up for the ufe of the garrion.

Totila, thus become mafter of Italy, fent ambaffadors to Juftinian with very refpectful letters, defiring to live on the fame terms with him that Theodusic had done with his predeceffor Anallatius; promiling in that cafe to refpect him as his father, and to affilt him, when he pleafed, with all his force, againt any other nation whatever. On the contiary, if the cmperor rejected his offers, he threatened to level Rome with the ground, to put the whole fenate to the fword, and to carry the war into Illyricum. Tbe empcror returned no other anfwer, than that he referred the whole to Belifarius, who had full power to manage all things of that nature. Upon this Totila refolved to deftroy the city; and had actually thrown down a third part of the wall, when he received a letter from Belifarius, diffuading him from his intention. After having ferioully confidered this letter, '「otila thought proper to alter his refolution with regard to the deftruction of the city; but fent every one of the inhabitants into Lucania, without leaving a fingle perfon in the metropolis. Belifarius hearing of this, imnediately returned to the capital, and undertook to repeople and repair it. He cleared the ditch which had been filled by Totila, but was for the prefent obliged to fill up the breaches in the walls with flones loofely heaped upon one another, and in this fituation the city was again attacked by the Goths. Belifarius, however, had taken care to fupply the inhabitants with plenty of provifions, fo that they were now in no danger of fuffering by famine; and the affaults of the enemy were vigoroufly repelled, notwithftanding the bad fituation of the fortifications, fo that Totila at laft abandoned the enterprife.

In the mean time the Perfians gained great advan-befifariu tages over the Romans in the Eaft, fo that there was a recalled. neceffity for recalling Belifarius a fecond time. He was no fooner gone, than Totila renewed his efforts with greater vigour than ever; and at the farme time the Franks, concluding that both Romans and Goths would be much weakened by fuch a deftructive war, feized upon Venetia, which belonged to both nations, and made it a province of the French empire. Totila did not oppofe them; but haying obsained a reinforcement

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of 6500 Lombards, returned immediately before Rome, fully intent on malking himfelf mafter of that metropulis. Having clofely invefted it by fea and land, he hoped in a thort time to reduce it by famine : but againft thes the governor wifely provided, by caufing corn to be fown within the walls; fo that he could probably have defied the power of Totila, had not the city been again betrayed by the Ilaurians, who opened one of the gates and admitted the enemy.

Thus the enpire of the Goths was a third time eltablilhed in Italy; and Cotila, immediately on his becoming maiter of Rome, difpatched ambaffadors to Juftinian, offeriag to affif him as a faithful ally againit any nation whatever, previded he would allows him the quite poffefion of Italy. But Juftinian was fo far from hearkening to this propofal, that he srould not even admit the ambaffadors into his prefence; upon which 'Totila refolved to purfue the war with the utmolt vigour, and to make himfelf mafter not only of thofe places which the Romans poffered in Italy, but in Sicily alfo. This he fully aecomplimed; when Narfes, who had formerly been joined in the command with Belifarius, was appointed general, with abrolute and uncontrouled autherity. But while this general was making the neceflary preparations for his exfedition, Totila, having equipped a fleet of 300 galleys, fent them to pillase the coafts of Greece, where they got an immenfe booty. They made a defcent on the inland of Corfu; and having laid it watte, they failed to Epirus, where they furprifed and plundered the cities of Nicopolis and Anchialus, taking many hips on the coalt, among which were fome laden with provifions for the army of Narfes. After thefe fuccefles they laid fiege to Ancona in Dalmatia. Being defeated, however, both by fea and land, Totila once more fent ambaffadors to Conftantinople, offering to yield S:cily and all Dalmatia, to pay an annual tribute for Italy, and to affift the Romans as a faithful ally in all their wars: but Juftinian, bent upon driving the Goths out of Italy, would not even fuffer the ambaffadors to appear in his prefence.

Totila finding that no terms could be obtained, began to levy new forcec, and to make great preparations by fea and land. He foon reduced the iffands of Corfica and Sardinia; but this was the laft of his fucceffes. Narfes arrived in Italy with a very formidable army, and an immenfe treafure to pay the troops their arrears, the want of which had been one great caufe of the bad fuccels of Belifarius in his lan expedition. He immediately took the road to Rome; while Torila affembled all his forces, in order to deci'e the fate of Italy by a general engagement. The battle proved very obftinate; but at laft the Gothic cavalry being. put to the rout, and retiring in great confufion among the infantry, the latter were thereby thrown into fuch diforder, that they could never aftervards rally. Narfes, obferving their confufion, encouraged his men to make a laft effort ; which the Goths not being able to withftand, betook themfelves to Alight, with the lofs of 6000 men killed on the fot. 'Totila finding the day irrecoverably loft, fled with only five horfemen for his attendants; but was rurfued and mortally wounded by a commander of one of the bodies of barbarians who followed Narfes. He continued his flight, however, for forme time longer ; but was at laft obliged to halt.
in order to get his wound dreffed, foon after which he expired.
'lhis difafter did not yet entirely break the Spirit of the Goths. They chofe for their king one "reia, defervedly efteemed one of the moft valiant men of their nation, and who had on feveral occafions diltinguifhed himfelf in a moft eminent manuer. All the valour and experience of Teia, however, were now infufticient to fop the progrefs of the Romans. Narfes made himfelf mafter of a great number of cities, and of Rome itfelf, before the Guths could affemble their forces.The Roman general next proceeded to invelt Cuma; which Teia determined at all events to relieve, as the royal treafure was lodged in that city. I his brought on an engagement, which, if Procopius is to be credited, proved one of the moft bloody that ever was fought. The Roman army confifled of rait multitudes brought from different nations: the Goths were few. in comparifon; but, animated by defpair, and knowing that all was at ftake, they fought with the utmoft fury. Their king placed himfelf in the firf rank, to encourage his men by his example; and is faid to bave given fuch proofs of his valour and conduct as equalled him to the moft renowned heroes of antiquity. The Romans difcovering him, and knowing that his death would probably put an end to the batcle, if not to the war itfelf, directed their whole force againll him, fome attacking him with fpears, and others difcharging againft him flowers of darts and arrows. Teia maintained his ground with great intrepidity, received the miffive weapons on his flieid, and killed a great number of the enemy with his own hand. When his fhield was fo loaded with darts that he could not eafily wield it, he called for another. Thus he faifted his hield three times; but as he attempted to change it another time, his breaf being neceffarily expofed for a moment, a dart truck him in that moment with fuch force, that he immediately fell down dead in the place where he had flood from the beginning of the battle, and upon heaps of the enemy whom he had killed. The Romans, feeing him fall, cut off his head and expofed it to the fight of the Goths, not doubting but they would be immediately dilheartened and retire. In this, however, they were difappointed. The Goths maintained the fight with great vigour, till night put an end to the engagement. The next day the engagement was renewed early in the morning, and continued till night: but on the third day, the Gotbs defpairing of being able to overcome an enemy fo much fuperior to them in numbers, fent deputies to Narfes, offering to lay domen their arms, provided fuch of them as chofe to remain in Italy were allowed to cnjoy their ellates and polleffions without moleftation, as fubjects of the empire; and thofe who were willing to retire elfewhere, were fuffered to carry with them all their goods and effects. To thefe terms Narfes readily affented; and thus the The end of empire of the Gotbs in lialy was finally deftroycd, the of the country now becoming a province o! the eatern Ro-Goths in man empire.

In this conqueft Närfes had been affifted, as already obferved, by many barbarous nations, among. whom were the Lon bards, at that time fettled in Pannomia. On the conclufion of the war, they were difmiffed with rich prefents, and the nation for fome time
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continued faithful allies to the Romans. In the mean time Juttinian dying. Narfes, who govemed Jtaly with :in ablolute frvay, was accufed to the emperor Juftin 11. and to the emprefs Sophia, of afpiring to the foveteinnty of the country. Hereupon he was recalled, and Longinus fent to fucceed him. As Narfes was an euncech, the emprefs is reported to have faid, that his cimployment at Conflantinople fhould be to diftribute in the apartment of her women the pottion of wool which each was to firr. Narles, enraged at this farcafm, replied, that he ftoould begin fuch a web as the thould never be able to finith; and immediately dif patclied meffengers to Alboinus king of the Lombards, inviting them into Italy. Along with the moffengers he fent fome of the belt fruits the country afforded, in order to tempt him the more to become ma. fler of füch a rich kingdom.

Alboinus, highly pleafed with the opportunity of invading a country with which his fubjects were already well acquainted, began without lofs of time to make the neceflary preparations for his journey. In the month of April, 568, he fet out with his whole nation, men, women, and children; carrying with them all their moveables. This promifcuous multitude arrived by the way of Iftria; and advancing through the province of Venetia, found the whole country abandoned, the inhahitants having fled to the neighbouring iflands in the Adriatic. The gates of Aquileia were opened by the ferv inhabitants who had courage to flay: moft of them, however, had fled with all their valuable effects; and among the reft the patriarch Paulinus, who had carried with him all the facred utenfils of the churches. From Aquileia, Alboinus proceeded to Forum Julii, of which he likewife became mafter without oppofition. "Here he fpent the wintcr; during which time he crected Friuli into a dukedom, which has continued ever fince. In 569 , he made himfelf matter of Trivigi, Oderzo, Monte Selce, Vicenza, Verona, and Trent; in each of which cities he left a frong garrifon of Lombards under the command of an officer, whom he diftinguimed by the title of duke: but thefe dukes wete only officers and governors of cities, who bore the title no longer than the prince thought proper to continue them in their command or government. Padua and fome other cities Alboinus left behind him without attempting to reduce them, either becaufe they were too well garrifoned, or becaufe they lay too much out of his way. In 570 , he entered Liguria. The inhabitants were fo terrified at his approach, that they left their habitations with fuch of their effects as they could carry off, and fled into the mofl mountainous and inacceffible parts of the country. The cities of Brefcia, Bargamo, Lodi, Como, and others quite to the Alps, being left almolt without inhabitants, fubmitted of courfe; after which he reduced Milan, and was thereupon proclained king of Italy.

But though the Lombards lad thus conferred the title of king of Jtaly on their fovereign, he was by no means poffeffed of the whole country, nor indeed was it ever in the power of the Lombards to get poffellion of the whole. Alboinus having made himfelf matler of Venrtia, Liguria, Emilia, Hetruria, and Umbria, applied himfelf to legiflation and the civilization of his fubjects. Eut before he conld make any progrefs in
this work, he was taken off by the treachery of his wife; and Clephis, one of the nobles, chofen king in his ftead. Clephis rebuilt fome cities which had been ruined during the wars between the Goths ard Romans, and cxitended his conquelts to the very gates of Rome; but as he behaved both to the Romans and Lombards with the greateft cruelty, he was inurdered, after a fhort reign of 18 months. His cruelty gave the Lombards fuch an averfion againft regal power, that they changed their form of, government, being governed only by their dukes for the fpace of tem years. During this interregnum, they proved fuccefsful in their wars with the Romans, and made themfelves mafters of feveral cities: but percciving that their kingdom, thus divided, could not fubfint, they refolved once more to fubmit to the authority of one man; and accordingly, in 585 , Autharis was chofen king of the Lombards.

The great object of ambition to the new race of surdur Lombard monarchs was the conqueft of all Italy; and Charie this proved at laft the ruin of their empire by Charles magne the Great, as related under the article France, $\mathrm{N}^{\circ} 27$. As the Lombards, however, had not been poffeffed of the whole territory of Italy, fo the whole of it never came into the pofieflion of Charlemagne : neither fince the time of the Goths, has the whole of this country been under the dominion of any fingle ftate. Some of the fouthern provinces were fill poffeffed by the eraperors of Conftantinople : and the liberal grants of $\mathrm{Pe}-$ pin and Charlemagne himfelf to the pope, had invefted him with a confiderable thare of temporal power. The territories of the pope indeed were fuppofed to be held in vaffalage from France; but this the popes them-tixtent 35 felves always ftifly denied. The undifputed territory his Ital of Charlemagne in Italy, therefore, was reffricted to domnj. Piedmont, the Milanefe, the Mantum, the territory of Genoa, Parma, Modena, Tufcany, Bologna, the dukedoms of Friuli, Spoleto, and Benevento; the laft of which contained the greateft part of the prefent kingdom of Naples.

The feudal government which the Lombards had introduced into Italy, naturally produced revolts and commotions, as the different dukes inclined either to change their mafters or to fet up for themfelves. Several revolts indeed happened during the life of Charlemagne himfelf; which, however, he always found means to cruth: but after his death, the fovereignty of Italy became an object of contention between the kings of France and the emperors of Germany. That great monarch had divided his extenfive dominions among his children; but they all died during his lifetime, except Louic, whom he affociated with himfelf in the empire, and who flicceeded to all his dominions after his death. From this time we may date the ircubles with which Italy was fo long overwhelned; and of which, as they proceeded from the ambition of thofe called kings of Italy and their nobles, of the kings of France, and of the emperors of Germany, it is diflicult to have any clear idea. The following hort ketch, Thowever, may perhaps give fome fatisfaction on this pefplexed fubject.

At the time Louis the fon of trarlemagne was de-the dift clared emperor of the Weft, Italy was held by Ber- ances ir aratd the fon of Pepin, brother to Louis. Though this Italy af tim Bernard bore the title of king, yet he was only ac-charle-
215. counted a vafial of the cmperor. His arabition, however, foon prompted him to rebel againt his uncle; but being abandoned by his troops, he was taken prifoner, had his eyes pulled out, and died three days after. As the difturbances till continued, and the nobles of Lombardy were yet very refractory, Lothaire, eldelt fon to the emperor, was in the year 823 fent into Italy; of u!nch country he was firit crowned king at Rome, and afterwards cmanear of the Weft, during his father's lifetine. But though his abilities were futficient to have fettled every thing in a flate of tranquillity, his unbounded ambition prompted him to engage in a rebellion againt his father; whom he more than once took prifoner; though in the end he was obliged to fubmit, and alk parden for his offences, which was obtained only on condition of his not palfing the Alps without leave obtained from his father.

In the mean time, the Saracens, taling advantage of thefe inteftine wars, landed on the coafls of Italy, and committed fuch ravages, that even the bilhops were oblige:! to arm themflues for the defence of the country. Lothaire, howewer, after returning from his tunatural war with his father, was fo far from attempting to put an end to thefe ravages, or to reftore tranquillity, that he feized on fome places belonging to the lee of Rome, under pretence that they were part of his kingdom of Lombardy; nor would he forbear thefe encroachments till exprefsly commanded to do fo by his father. Atter having embroiled hinulelf, and almof loft all his dominions, in a war with his brothers after the death of Louis, and declared his fon, alfo called Louis, king of Italy, this ambitious prince died, leaving to Louis the title of emperor as well as king of Italy, with which he had before inveited him.
The new emperor applied himfelf to the relloration of tranquillity in his dominions, and driving out the Saracens from thof.e places which they had feized in 1 . taly. Tlis he fully accomplified, and obliged the inf.dels to retire into A frica; but in 875 he died without naming any fucceffor. After his death, fome of the Italian nobles, headed by the duke of Tufcany, reprefented to thic pope, that as Louis had left no fucceflor, the regal dignity, which had fo long been ufurped by foreigners, ought now to return to the I. talins. The pope, however, finding that Charles the Bald, king of France, liad fuch an ambition for the imperial crown, that he would flick at nothing to obtain it, refolved to gratify him, though at as high a price as pofitibc. He accordingly crowned him emperor and king of Lombardy, on condition of his owning the independency of Rome, and that he himelelf only held the empire by the gift of the pope. This produced a confiniracy among the difcontented nobles; and at the fame time the Saracens renewing thcir incurfions, threatened the ecclefiaflical territories with the utmoft danger. 'The pope folicited the emperor's afillance with the greateft earneftnefs; but the latter died before any thing effectual could be done; after which, being difleffed by the Saracens on one hand ? and the Lormard nobles on the other, the unlappy poutiff was forced to fly into Irance. Italy now fcil into the utmoft confufion and anarchy; during which time" many of the nobles and flates of Lombardy af.
fumed an independence, which they have cien fince se. tained.

In 877, the pope was reconduRed to Italy with an army by Bofon fon-in-iaw to Louis II. of Fhace: bur though he inclined very much to have raifed :.6: prince to the dignity of king of Italy, he fa...i. his interett infuficient for that purpofe, ard matters remained in their former fituation. "ine nobles, who had diven -ur (im ?."re, were now indeed reconciled to him : but notwithlanding this reconciliation, the thate of the country was worfe than cuer: the great men renouncing the authority of any fuperior, and crery one claining to be forereign in his own territories. 'Ho add to the calamities which cnfued through the ambition of there defpots, the Saracens committed everywhere the moft terrible ravages; till at laft the Italian nobles, defpiting the kiugs of the Carlovingian race, who had weakened themelves by their mutual difenfions, began to think of throwing off exen all nominal fubinilion to a foreign yoke, and retaining the imperial dignity among themfelves. Thus they hoped, that, by being more united among themfelves, they might be more able to refift the common enemy. Accordingly in 885 they went to Pope Adrian ; and requelting him to join them in afferting the independency of Italy, they obtained of him the two following decrecs, viz. That the popes, after their election, might be confecrated without waiting for the prefence of the king or his ambafladors; and that, if Charles the Grofs died without fons, the kingdom of Italy, with the title of emperor, thould be conferred on fome of the Italian nobles.

Thefe decrees were productive of the worlt confe. quences imaginable. The emperor complained of being deprived of his right; ant the difienlions betweenthe Italian mobles themfeives became more fatal thau ever. The two mott powerful of thefe noblemen, Berengarius duke of Friuli, and Guido or Vido duke of Spoleto, entered into an agreement, that on the death of the emperor the former thould fize on the kingdom of Italy, and the latter on the kingdom of Fiance. Berengarius fucceeded without oppofition; but Vido was difappointed, the French haring alieady cholen Eudes or Otho for their king. Upon this he returned to Italy, a:ad turned his arans again't Berengarius. Vido proved victorious in a: engagement, and drove his rival into Germany; there he fought the affitance of Arnolphus, who had fucceeded to the crown after the death of Charles. Having thus obtained the kingdom of Italy, Vido employed lis tine in refurming the abufes of the flate, and confrming the grants fornerly given to the pope, oat of gratitude for his having fanctified hic ufurpation and declared him lawful king of Italy. This tranquillity, howeser, was of thort duratious. Arnolphus fent an army into Italy; the Saracens from Spain ravaged the northern parts of the country, and getting poffelfion of a callle near the Alps, held it for many years after: to the great diftrefs of the neighboaring parts, which were expofed to their continual incurfions; and at the fame time Benerento was belieged and taken by the forces of the ealiern empcror, fo that -Vido found his empire very confiderably circumferibed i:s its dimenfions.

The new king, diftrefed by fo many enemies, affuciated his fon Lambert with him in the goverament,

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 and bribed the Germans to return to their own country. In 893, however, they again invaded Italy ; but were fuddenly obliged to leave the country, after having put Berengarius in poffelfon of Pavia. In the mean time, Vido died, and his fon Lambert drove out Berengarius; but having joined a faction, headed by one Sergius, againt Pope Formofus, the latter offered the kingdom of Italy to Arnolphus; sho thereupon entered the country with an army, befieged ani took Rome, maffacring the faction of Sergius with the molt unrelenting cruelty.Arnolphus thus mafter of Italy, and crowned empe-. ror by the pope, began to form fchemes of Itrengthening himfelf in his new acquifitions by putting out the eyes of Berengarius: but the latter having timely notice of this treachery, Hed to Verora; and the Italians were to provoked at this and the other cruelties of Arzolphus, that they drove him out of the country. His departure occafioned the greateft confulion at Rome. Formofus died foon after; and the fucceffors to the papal dignity, having now no army to fear, excited the greatell diturbances. The body of Formofus was dug up and thrown into the Tiber by one pope; after which ciat pope was ftrangled, and Formofus's body buried again in the Vatican, by order of ancthcr. At laft the coronation of Arnolphus was declared void, the Sergian faction entirely demolifhed, and the above-mentioned deciees of Adrian were annulled; it being now determined that the elected popes thould not be confecrated but in prefence of the emperor or his ambaffadors.

During thefe confufions Lambert enjoyed the kingdom in quiet; but the nobles hating him on account of his arbitrary and tyrannical government, began again to think of Berengarius. In the mean time, however, another faction offered the crown to Louis ling of Arlec. This new competitor entered Italy with an army in 899 ; but was forced bv Berengarius to renounce his claim upon oath, and to fiwear that he would never again enter Italy, even though he thould be invited to be crowned emperor.-This oath, however, was foon forgot. Louis readily accepted of another invitation, and was crowned king of ltaly at Pavia in got. The following year he forced Kerengarius to fly into Bavaria; but having unadvifedly difbanded his army, as thinking himfelf now fecmely feated on the throne, Berengarius, who watched every opportunity, furpiifed him at Verona, and put out his eyes.

Thus Berengarius at laft became king of Italy with. -out a rival; and held his kinodom for 20 years afterwards, without any oppofition from his fuhjeets, who at laft became fenfible of the mifehicfs arifng from civil difcords. He was not yet, however, without troubles. ' l he Hungarians invaded Italy with a formidable army, and advanced within a fmall diftance of Pavia Berengarius armed the whole force of his dominions; and carne againt them with fuch a multitude, that the Hungarians retired without venturing an engagement. A great many of their men were loft in paffing a river; upon which they fent deputies to Berengarius, offering to reftore all their booty, and never to come again into Italy, provided they were allowed a fafe retreat. Thefe conditions were imprudently denied; upon which the Hungarians attacked the army of Berengatius in defpair, and defeated them with great flaughter. After this they overran the whole country, and plundered the
towns of Trcvifo, Vicenza, and Padua, without refilt. ance, the intrabitants fying everywhere in:o forified places. This devatlation they continu. $1 \mathrm{f} G$ is wo years; nor could their departure be procured without paying them a large lun of money: which, however, proved of little avail; for the following year they returned and ravaged the territury of Friuli without controul. Scarcely were thefe invaders departed, when the Siaracens, who had fettied at the frot of the Alps, ian vaded Apulia and Calabria, and made an irruption as far as Acqui in the neighbourhood of Pavia; while the inhabitants, inftead of oppofing them, fled to fome forts which had been erected in the time of the frft irruption of the Hungarians. In 912, however, John, preflyter of Ravenna, having attained the papal dignity by means of Theodora wife of Aldebert count of 'Tufcany, applied himfelf to regulate the affairs of the church, and to reprefs the infults of the Saracens. While he was confidering on the moft proper methods of effecting this, one of the Saracens, who had received an injury from his countrymen, fled to Rome, and offered to deliver the Italians from their invations, if the pope wouid but allow him a fmall body of men. His propofals being accepted, 60 young men were chofer, all well armed; who being conducted by the Saracens into by paths, attacked the infidels as they were returning from their inroads, and feveral times defeated great parties of them. Thefe loffes affecting the Saracens, a general alliance was concluded amongt all their cities; and having fortified a town on the Garigliano, they abandoned the reft, and retired hither. Thus they became much more formidable than before; which alarming the pope, he confulted with Arnulphus prince of Benevento and Capua, fending at the fame time ambaffadors to Conftantine the Greek emperor, inviting him to an alliance againtt the infidels. The Saracens, unable to withftand fuch a powerful combination, were befieged in their city: where being reduced to great ftraits, they at laff fet fire to it, and fallied out into the wonds; but being purfued by the Italians, they were all cut off to a mais.

In this expedition it is probable that Berengarius gave great affifance : for this very year, 9 t 5 , he was crowned emperor by the pope. This gave difpleafure to many of the ambitious nobles; confpiracies were repeatedly formed againf him; in 922 , Rodolphus king of Burgundy was crowned alfo king of Italy; and in 931 , Berengarits was treacheroufly affaffinated at Verona; of which difturbances the Hungarians taking the advantage, plundered the citics of Mantua, Brefcia, and Bersano. Marching afterwards to Pavia, they Pavia pl inveited it cluelv on all fides; and about the middle of dered in March 925 , thing advantage of the wind, they fet hurnt by fire to the houfes next the walls, and during the con- rians. fution broke open the gates, and getting pofieftion of the city treated the inhabitants with the greatelt barbarity. Having burnt the capital of the kingdom, they next proceeded to Placenza, where they plandered the fuburbs; and then returned to Pannonia laden with booty.

The affairs of Italy now fell into the utmof confufron. A faction was formed againft Rodolphus in favour of Hugh count of Arles. The latter prevailed, and was crowned king at Pavia in 927. The Italinns, however, foon repented of their choice. The Romans

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 fret invited him to be their governor, and then drove him out with dilgrace ; at the fame time choofurs a ronful, tribunes, \&ic. as if they had defigned to alicrt their ancient liberty. One faction, in the mean time, offered the crown to Rodolphus, and the other to Arnold duke of Bavaria, while the Saracens took this opportunity to plunder the city of Genoa.Hugh, in the mean time, was not inactive. Having collected an army, he marched direnly againft Arnold, and entirely defeated him. Rodolphus delivered him from all apprehenfions on his part, by entering into an alliance with him, and givirg his daughter Adelaide in marriage to Lotharius, Hugh's fon. Being thus free from all danger from foreign enemies, he marched againlt the Romans; but with them he alfo came to an agteement, and even gave his daughter in marriage to Alberic, whom they had chofen conful. In the mean time the country was infetted by the Hungarians and Saracens, and at the fame time depopulated by a plague. Endlefs confpiracies were formed againtt Hugh himfelt; and at laft, in 947 , he was totally deprived of the regal power by Berengarius, grandfon to the firlt king of that name; foon after which he retired into Burgundy, and bocame a monk.

Though Berengarius was thus poffefled of the fupreme power, he did not affume the title of king till after the death of Lotharius, which happened in 950 ; but in the mean time Italy was invaded by Henry duke of Bavaria, and the Hungarians. 'The former took and plundered the city of Aquileia, and ravaged the neighbouring country; after which he returned without moleftation into Germany; the latter made a furious irruption; and Berengarius being unable to oppofe them, was at laft obliged to purchale their departure by money. In railing the fum agreed upon, however, Berengarius is faid to have been more oppreffive than even the Hungarians themfelves. Every individual, without diltinction of age or fex, was obliged to pay fo much for their head, not excepting even the poor:- 'The churches were likewife robbed; by which means the king raifed an immenfe fum of money, ten buthels of which he gave to the Hungarians, but kept the much greater part to himfelf.

Berengarius, not yet fatisfied, wanted to be put in poffeffion of Pavia, which was held by Adelaide, the widow of Lotharius. In order to obtain his purpofe, he propofed a marriage between her and his fon Adelbert. This propofal was rejected; upon which Rerengarius befieged and took the city. The queen was confined in a neighbouring caftle, from whence the made her efcape by a contrivance of her confeflor. With him and one female attendant the concealed herfelf for fome days in a wood; but being obliged $t o$ remove from thence for want of food, the applied for protection to Adelard bihop of Reggio. By him fhe was recommended to his uncle Atho, who had a Atrong caftle in the neighbourhood of Canoza. Here The was quickly befieged by Berengarius; upon which meflengers were difpatched to Otho king of Germany, acouainting him, that, by expelling Berengarius, and mairying Adelaide, he might eafly obtain the kingdom of Italy. This propofal he readily accepted, and married Adelaide; but aliowed Berengarius to retain the greatef part of his dominions, upon condition of his doing homage for them to the kings of Germany.

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He deprived him, however, of the dukcủum of Iriuli and marquila: of Verona, which he gave to Henry duke of Ravaria.

Berengarius, thus freed from all apprehenfon, not oth.) ${ }^{3 n}$ only opprefied his fubjects i:s a molt tyramuical manner, er win of but revolted againt O :ho himfelf. "This at hall pro-fingly ant cured his ruin: for, in 96 r , Otho returned with ancenperor o: army into Italy, where he was crownel king by the the weit. archbithop of Milan; and the year following was crowned emperor thy the pope. On this occafion he re. ceived the imperial crown from his holinefs, and kided his feet with great humility: after which they botin went to the altar of St l'eter, and bound themlelyes by a folemin oath, the pope to be always faithful to the cmiperor, and to give no affiftance to Berengarius or Arlelbert his enemies; and Otho, to confult the weliate of the church, and to reftore to it all its patrimony granted by former emperors. Otho, befides this, beftowed very rich prefents on the church of St Peter. He ordained that the election of popes fould be according to the canons; that the elected pope Thould not be confecrated till he had publicly promifed, it prefence of the emperor's commiflaries, to oblerve every thing formerly fpecified with regard to the rights of the emperors; that thefe commiflaries flould conflaty refide at Rome, and make a report every year how juftice was adminitered by the judges; and in cafe of any complaiats, the commiffaries fhould lay them before the pope; but if he neglected to intimate them, the imperial commiffaries might then do what they pleafed.

Thus we fee that Otho, however much he might allow the pope's fupremacy in fpiritual matters, plainly affined the fovereignty in temporals to himfelf; and thus Italy was for upwards of 300 years accounted a part of the German empire. The popes, however, by no means relifined this fuperiority of the emperor. The latter was hardly departed, when the pope, (John XII.) broke the oath which he had juft before fworn with fo much folemnity; and entered firt into an alliance with Adelbert count of Tufcany to expel the Gcrmans, and then folicited the Hungarians to invade Italy. This treachery was foon punifhed by Otho. He returned with part of his army, and affembled a council of bilhops. As the pope did not appear, Otho pretended great concern for his ablence. The biftops replied, that the confcioufnefs of his guilt made him afraid to thow himfelf. The emperor then inquired particularly into his crimes; upon which the bithops acculed him of filling the palace with lewd women, of ordaining a bihop in a flable, caftrating a cardinal, drinking the devil's health, \& $c$. As the pope ftill refufed to appear in order to jullify He depofes himfelf from thefe charges, he was formally depofed; the pupt. and Leo the chief fecretary, though a layman, elected in his ftead.

The new pope, in compliment to the emperor, granted a bull, by which it was ordained that Otho and his fucceffors flould have a right of appointing the popes and invefting archbiflops and bithops; and that nome fhould dare to confecrate a bifhop without leave obtained from the emperor. '1hus were the affairs of the Italians fill kept in the utmoft confufion even during the reign of Otho I. who appears to have been a wife and active prince. Ile was no fooner gone, than the 3 B nev:

Itr'y. ne: pope was depofed, all his decrees annulled, and John replaced. The party of Leo rras nerw treated with great cruelty: but John was foon fopped in his cateer; for about the middle of May, the fame year (964) in which he had been reftored, being furprifed in bed with a Roman lady, he received a blow on the head from the devil (according to the authors of thofe times), of which he died eight days after. After his death a cardinal deacon, named Ben:dit?, was elected by the Romans, but depoled by Otho, and banifled to Hamburgh.

The Ita.
lians revolt. but are re. duced.

The cmperor was fcarce returned to Germany, when bis fickle Italians revolted, and fent for Adelbert, who had fled to Corfica. But being foon reduced, they continued quiet for about a year; after which they revolted again, and imprifoned the pope. Otho, however, provuked at their rebellious difpolition, foon returned, and punithed the rebels with great feverity; after which he made feveral laws for the better regulation of the city of Rome, granting feveral privileges to the Venetians, and caufed his fon Otho, then only thirteen years of age, to be crowned emperor.

This ceremony being over, Otho difpatched an ambaffador to Nicephorus, emperor of Conftantinople, demanding his ftep-daugbter Theophania in marriage for the young emperor; but upon this alliance being rejected, and that not without circumflances of the moft arrocious perfidy, Otho inflantly invaded the countries of Apulia and Calabria, and entirely defeated the Greek army in thofe parts. In the mean time, however, Nicephorus being killed, and his throne ufurped by Juhn Zimifces, Otho immediately entered into an alliance with the latter, and eafily obtained Theophania for his fon. She was crowned with great folemnity on the 8th of April 969 : at the fa:ne time it is pretended by fome authors, that the Greeks renounced their rights to CaJabria and Apulia; though this is denied by others. After the celebration of this marriage, the emperor un-dertook-an expedition againtt the Saracens, who llill refided at the foot of the Alps; but being informed of the death of fevcral nobles in Germany, he thought proper to return thither, where he died of an apoplexy in the year 973.
At the time of Otho's death Italy was divided into the provinces of Apulia, Calabria, the dukedom of Benevento, Campania, Terra Romana, the dukedom of Spoleto, Tufcany, Romagna, Lombardy, and the marquilates of Ancona, Verona, Friuli, Trevifo, and Genoa. Apulia and Calabria were fill claimed by the Greeks; but all the reft were either immediately fubject to, or held of, the kings of Italy. Otho conferred Penevento (including the ancient Samnium) on the duke of that name. Campania and Lucania he gave to the dukes of Capua, Naples, and Salerno. Rome with its territory, Ravenna with the exarchate, the dukedom of Spoleto, with Tufcany, and the marquifate of Ancona, he granted to the pope ; and retained the rell of Italy under the form of a lingdom. Some of the cities were left free, but all tributary. He appointed feveral hereditary marquifates and counties, but referved to himfelf the fivercign jurifdiction in their territories. The liberty of the cities confilted in a freedom to choofe their own magithrate, to be judged by their own laws, and to difpofe of their own revenucs, on condition that they touk the oath of allegiance to the king, and paid the
culomary tribute. The cities that were not free were governed by the commiffaries or lieutenants of the e:nperor; but the free cities were governed by two or nore confuls, afterwards called poreffater, chofen annually, who took the oath of allegiance to the emperor berore the bithop of the city or the emperor's commifary. The tribute evacted was called foderum, parata, et manfronaticum. By the foderum was meant a certain quantity of corn which the cities were obliged to furnith to the king when marching with an army or making a progrefs through the country; though the value of this was frequently paid in money. By the parata was underflood the expence laid out in keeping the public roads and bridges in repair; and the manfonaticum included thofe expences which were required for lodging the troops or accommodating them in their camp. Under pretence of this laft article, the inhabitants were fometimes ftripped of all they poffeffed, except their oxen and feed for the land. Befides regulating what regarded the cities, Otho diftributed honours and poffefions to thofe who had ferved him faithfully. The tonours confifted in the titles of diske, marguis, count, capiain, valvafor, and valvafin: the polieflions were, befides land, the duties arifing from harbours, ferries, "roads, filh-ponds, mills, falt-pits, the ules of rivers, and all pertaining to them, and fuch like. The dukes, marquiles, and counts, wete thofe who received dukedoms, marquifates, and counties, from the king in fiefs; the captains had the command of a certain number of men by a grant from the king, duke, marquis, or count; the valvafors were fubordinate to the captains, and the valvafins to them.

No fooner was the death of Otho I. known in Italy, ©reat di than, as if they had been now freed froin all reltraint, turbance the nobles declared war againfteach other: Come ci- happen e ties revolted, and chofe to themfelves confuls; while the the deat O . dominions of others were feized by the nobles, who confirmed their power by erecting citadels. Rome efpecially was haraffed by tumults, occafioned chiefly by the feditious practices of one Cincius, who preiled his fellow-citizens to reffore the ancient republic. As the pope continued firm in the interens of the emperor, Cincius caufed him to be ftrangled by one Franco a cardinal deacon; who was foun after rewarded with the poatificate, and took upon him the name of Boniface VII. Another pope was chofen by the faction of the count of Tufcany; who being approved by the emperor, drove Cincius and Bonitace out of the city. Difurbances of a fimilar kind took place in other cities, though Milan continued quiet and loyal in the midn of all this uproar and confufion.

In the mean time Boniface fled for refuge to Conflantinople, whese he excited the emperor to make war againf Otho II. In 979 an army was accordingly fent into Italy, which conquered Apulia and Calabria; but the next year Otho entered Italy with a formidable army; and having taken a fevere revenge on the authors of the difturbances, drove the Greeks entirely out of the provinces they had feized. Having then caufed his fon Otho III. at that time a boy of ten years of age, to be proclaimed emperor, he died at Rome in the year 983 . A mong the regulations made by this emperor, one is very remarkable, and muft give us a

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frange idea of the inhahitants of Italy at that time. He made a law, That no ltalian fhould be believed upon his oath; and that in any difpute which cou'd not be decided othersife than by witnefles, the parties fhould have recourfe to a duel.

Otho III. fucceeded to the empire at twelve years of age; and during his minority the dinurbances in Italy revived. Cincius, called alfo C-efcentius, renewed his foheme of reftoring the republic. The pope (John XV.) oppofing his fchemes, was driven out of the city; but was foon after recalled, on hearing that tee had apulied to the emperor for alfiftance. A few years after Crefcentius again revolted, and expelled Gregory V. the fucceffor of John XV.; raifing to the papal dignity a creature of his own, under the name of Yolin XVI. Otho, enraged at this infult, returned to Rome with a powe-ful army in 998 , befieged and took it by affault; after which he caufed Crefcentins to be belicaded, and the pope he had fet up to be thrown headlong from the caftle of St An gelo, after having his eyes pulled out, and his nofe cut of. Four years after, hie hirfelf died of the fmallpox; or, according to fome, was poifoned by the widow of Crefcentius, whom he had debauched under a promife of marriage, juft as he was about to punith the Romans for another revolt.

Otho was fucceeded in the imperial throne by Henry duke of Bavaria, and grandfon to Otho II. Henry bad no fooner fettled the affairs of Germany, than he found it neceffary to march into Italy agai, if Ardouin marquis of Ivrea, who had affumed the title of king of Italy. Him he defeated in an engagement, and was himelf crowned king of Italy at Pavia in 1005 ; but a few jears after, a new conteft arofe about the papal clair, which again required the prefence of the emperor. Before he arrived, however, one of the competitors (Benedict VIIl.) had got the better of his rival, and both Henry and his queen received the imperial crown from his hands. Before the emperor entered the church, the pone propofed to him the following fiuettion: "Will you obferve your fidelity to me and my fucceffors in every thing:" To which, though a kind of hnmage, he fubmitted, and anfwered in the affirmative. After his coronation, he confirmed the privileges beftowed on the Roman fee by his predeceffors, and added fome others of his own; ftill howcver, referving for himfelf the fovereignty and the power of fending commiflaries to hear the grievances of the people. Having repelled the incurfions of the Saracens, reduced fome more rebellions of his fubjects, and reduced the greateft part of Apulia and Calabria, he died in the year 1024 .

The death of this emperor was, as ufual, followed by a competition for the crown. Conrad being chofen emperor of Germany, was declared king of Italy by the archbihop of Milan; while a party of the nobles made offer of the crown to Robert king of France, or his fon Hugh. But this offer being declined, and likewife another to William duke of Guienne, Conrad enjoyed the dignity conferred on him by the archbiThop without molenation. He was crowned king of Italy at Monza in 1026; and the nest year he received the imperial crown from Pope John XX. in prefence of Canute the Great, King of England, Densaark, and Norway, and Rodolph IlI. king of Bur-
gundy. His reign was fimilar to that of his predeceffors. The ltalians revolted, the pope was expelled, the malecontents were fubdued, and the pope retlored, after which the emperor returned to Germany, and died in 1039.

Under Henry III. who fuccecded Courad, the dif- The ${ }^{45}$ dirturbances were prodigioully augmented. Pope Syl- nriters inveltar II. was drivea out by Benedict; who in his Hesfendll. turn was expe!led by John bilhop of Sabinun, who affumed the title of Sy/arefor III. Three months after Benedict was reftored, and excommunicated his rivals; but foon after refigned the pontificate for a furm of money. In a fhort time he reclaimed it; and thus there were at once three popes, each of whom was fupported on a branch of the papal revenue, while all of them made themfelres odious by the fcandalous lives they led. At laft a prietl called Ciratian put an end to this fingular triumvirate. l'artly by artifice, and partly ly prefents, he perfuaded alf the three to renounce their pretenfions to the papacy; and the people of Rome, out of gratitude for fo fignal a fervice to the church, chofe him pope, under the name of Gregory VI. Henry I1I. took umbrage at this election, in which he had not been confulted, and marched with an army into Italy. He depofed Gregory, as having been guilty of fimony, and filled the papal chair with his own chancellor Heidiger, biltop of Bamberg, who affumed the name of Clement 11 . and afterwards confecrated Henry and the emprefs Agnes. 'This ceremony being over, and the Romans having fworn never to elect a pope without the approbation of the reigning emperor, Henry preseded to Capua, where he was vifited by Drago, Rainulphus, and other Norman adventuters; who leaving their country at different times, had made themfelves mallers of great part of Apulia and Calabria, at the ex. pence of the Greeks and Saracens. Heury entered $H^{46}$ pence of the Greeks and Saracens. Henry entered He invefts
into treaty with them; and not only folemnly invefted the Northem with thofe territories which they had acquired by mane with conqueft, but prevailed on the pope to excommuni-nies in A. cate the Beneventines, who had refufed to open their pulia and gates to him, and beftowed that city and its depend-Calabria. encies, as fiefs of the empire, upon the Normans, provided they took poffeflion by furce of arms. The emperor was farce returned into Germany when he received intelligence of the death of Clement II. He was fucceeded in the apoftolic fee by Damafus II.; who alfo dying foon after his clevation, Henry nominated Bruno bilhop of Toul to the vacant chair. This Bruno, who was the emperor's relation, immediately affumed the pontificals; but being a modeft and pious prelate, he threw them off on his journey, hy the perfuafion of a monk of Cluny, named Hildelrand, afterwards the famous Gregory VII. and went to Rome as a private man. "The emperor alone (faid Hildebrand) has no right to create a pope." He accompanied Bruno to Rome, and fecretly retarded his election, that he might arrogate to himfelf the merit of obtaining it. The fcheme fucceeted to his wih; Bruno, who took the name of Leo I.Y. believing himfelf indebted to Hildebrand for the pontificate, favoured him with his particular friendihip and confidence; and hence originated the, power of this enterprifing monk, of obfcure birth, but boundlefs ambition, who governed Rome fo long, and whofe zeal for

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lu. !. $-$ the exiltation of the church occafinited fo many troubles to Eusofe.

Leo foan after his elevation waited on the emperor at Worms, to crave affittance againit the Norman princes, who were become the terror of Italy, and treated their fubjeins with great feverity. Henry furnithed the pope with an army; at the head of which he marched againft the Nurmans, after having excommunicated them, accompanied by a great number of bithops and other eccleffallics, who were all either lilled or taken priloners, the Germans and Italians being totally reuted. Leo himfelf was led captive to Berevento, which the Normans were now maflers of, and which Henry had granted to the pope in exchange for the fief of Bamberg in Germany; and the apoftolic fee is to this day in poffeffion of Benevento, by virtue of that donation. The Normans, however, who had a right to the city by a prior grant, refored it, in the mean time, to the princes of Lombardy; and Leo was treated with fo much refpect by the conquerors, that he revoked the fentence of excommunication, and joined his fanction to the imperial invelliture for the lands which they held in Apulia and Calabrja. Leo died foen after his releafe: and the emperor about the fame time caufed his infant fon, afterwards the famous Henry IV. to be declared king of the Romans, a title till in ufe for the acknowledged heir of the empire. Gebehard, a German bifhop, was elected pope, under the name of Vitior II. and confirmed by the addrefs of Hildebrand, who waited on the emperor in perfon for that purpofe, though he difdained to confult him beforehand. Perhaps Hildebrand would not have found this tank fo eafy, had not Henry been involved in a war with the Hungarians, who preffed lim hard, but whom he obliged at laft to pay a large tribute, and furninh him annually with a certain number of fighting men.

As foon as the emperor had finifhed this war and others to which it gave rife, he marched into ltaly to infpect the conduct of his fifter Beatrice, widow of Boniface marquis of Mantua, and made her prifoner. She had married Gozelo, duke of Lorrain, without the emperor's confent; and contrakted her daughter Matilda, by the maropuis of Mantua, to Godfrey duke of Spoleto and Tufcany, Gozelo's fon by a former marriage. This formidable alliance juftly alarmed Henry; he therefore attempted to difiu've it, by carrying liis fifter into Germany, where he died foon alter his return, in the $39^{\text {th }}$ year of his age, and the 16th of his reign.
'The emperor, in his lan juurney to Italy, concluoed an allance with Contarini, doge of Venice. That republic was alrcady rich and powerful, though it had onl, been enfranchifed in the year 998 , from the tribute of a mantle of cloth of gold, which it formerly paid, as a mark of fubjection to the emperor of Conflantinople. Genoa was the rival of Venice in power and in commerce, and was already in poffefion of the inland of Corfica, which the Genoefe liad taken from the Saracens. Thefe two cities engrofied at this time almont all the trade of Europe. 'Ihere was no city in any refpei equal to them either in France or Germany.

Henry IV. was orly five years old at his father's
by his minority, to fhake off in great mafure their dependence upon the emperors. After a varicty of cortells about the pontificate, Nicholas II. a creature of Hildebrand's, was clected: who, among others, paffed the following ceiebrated decree, viz. What for the future, the cardinals ouly flould elect the pope; and that the election fhould afterwards be continned by the reft of the clergy and the people, "Saving the honour (adds he) due to our dear fon Henry, now king; and who, if it pleafe God, fhall be one day emperor, according to the right which we have already conferred upon him." After this he entered into a treaty with the Norman princes above-mentioned; who, though they had lately fivorn to hold their poffeffions from the emperor, now fwore to hold them from the pope; and hence arofe the pope's claim of fovereignty over the kingdoms of Naples and Sicily.
Thus was the power of the German emperors in Italy greatly diminifhed, and that of the popes proportionally exalted; of which Henry foon had fufticient evidence. For having allumed the grovernment into lis own hands in the year 1072, being then 22 years of age, he was fummoned by Alexander II. to His conte appear before the tribunal of the holy fee, on account w th the of his loofe life, and to anfwer the charge of ha- enperor. ving expofed the invefliture of bilhops to fale; at the Came time that the pope excited his German fubjocts to rebel againt him. The rebels, however, were defeated, and peace was reftored to Germany; but foon after, Hildebrand above-mentioned being elected to the pontificate under the name of Gregory I'II. openly aflumed the fuperiority over every eattlaly monarch whatever. He began with eicommunicating every ecclefiaftic who fhould receive a benefice from the bands of a layman, and every layman who thould take upon him to confer duch a benefice. Henry, inflead of refenting this infolence, fubmitted, and wrote a penitential letter to the pope: who, upon this, condefcended to take him into favour, after having leverely reprimanded him for his looie life; of which the emperor now confeffed himelef guilty.

The quarrel between the church and the emperor was, however, foon brought to a crifis by the follow. ing accident. Sulomon king of Hungary, being depoled by his brother Geyla, had Hed to Henry for protection, and renewed the homage of Hungary to the empire. Gregory, who favcured Geyfa, exclaimed againt this ad of fubmiffion; and faid in a letter to Solomon, "You ought to know that the kingdom of Hungary belongs to the Roman church; and learn that you will incur the indignation of the holy fee, if you do not acknowledge that you hold your dominions of the pope, and not of the emperor." Heury, thownh highly provoked at this declaration, thought proper to treat it with neglect; upon which Gregory refurned the difpute about invellitures. The predeceliors of Henry had always enjoyed the right of nominating bilhops and abbuts, and of giving them invefliture by the crofs and the sing. This rigint t'ey had in conumon with almof all princes. Thie predeceflors of Gregory VlI. had been accultomed on their part, to fend legates to the enuperors, in order to entreat their allitlance, to olitain their confirmation, or defire them to come and receive the papal linction, but for no other purpofe. Gregory, however, fent

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two legates to fummon Hensy to appear before hin as a delinquent, becaure he ftill continued to befow invellitures, notwithftanding the apoltolic decrec to the contrary; adding, that if he fhould fail to yieid ubedience to the church, he muft expect to be excommunicated and dethroned. Incenfed at this arrogant meflage from one whom he confidered as his vaffal, Henry difmiffed the legates with very little ceremony, and in 1106 convoked an affembly of all the princes and dignified ecclefialtics at Worms ; where, after mature deliberation, they concluded, that Gregory having tifurped the chair of St Peter by indirect means, infeten the church of God with a great many novelties and abules, and deviated from his duty to his fovereisn infeveral liandalous attempts, the emperor, by that lupreme authority derived from his predecentors, ough: to diveft him of his dignity, and appoint another in his place. In confequence of this determination, Henry fent an ambaffado: to Rome, with a form ! l Ceprivation of Gregory ; who, in his turn, convolied a council, at which were prefent 110 bithops, who unanimoully agreed that the pope had jult caufe to depofe Henry, to difiolve the oath of allegiance which the princes and flates had taken in his favour, and to prohibit them from loolding any correfpondence with him on pain of excommunication; which was immediateiy fuiminated againt the emperor and his adherents. "In the name of Almighty God, and by our authority (faid Gregory), I prohibit Henry, the fon of our emperor Henry, from governing the Teutonic kingdom and Italy: I releafe all Chriftian, from their oath of allegiance to him ; and ftrictly forbid all perfuns from ferving or attending him as king!" The circular laters writen by this pontiff breathe the fome fpirit with his fentence of dejulition. He there repeats feveral times, that "bithops are fuperior to kings, ard made to judge them !" expreflions alike artful and prefumptuous, and calculated for bringing in all the churehmen of the world to his ftandard.

Gregory knew well what confequences would follow the thunder of the church. 'The German bithops came immediately over to his party, and drew along with them many of the nobles: the flame of civil war fill lay finothering, and a bull properly directed was fufficient to fet it in a blaze. The Saxons, Henry's old enemies, made ufe of the papal difpleafure as a pretence for rebelling againf him. Even Guelfe, to whom the emperor had given the duchy of Bavaria, fupported the malecontents rith that power which he owed to his fovereign's bounty : nay, thofe very princes and prelates who had aftited in depuring Gregory, gave up their monarch to be tried by the pose; and his holinefs was folicited to come to Augburg for that purpofe.

Willing to prevent this odious trial at Augfourg, Henry took the unaccountable refolution of fuddenly paffing the Alps at Tirol, accompanied only by a few domeflics, to alk ablolution of Pope Gregory his oppreflor; who was then in Canoza, on the Apennine duchers Matilda above mentioned. At the gates of this place the emperor prefented himrelf as a humble penitent. He alone was admitted within the outer court; where, being thipped of his rotes, and wrapped is fackcloth, he was obliged to remain three days,

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in the month of January, bare-footed and fainag, before be was permitted to kifs the feet of his holmefs; who all that time was hut up with the devout Maidda, whofe fpiritual director he liad long been, and, as fome fay, her gallant. But be that as it may, her attachment to Gregory, and her hatred to the Cermans, was fo great, that fle made over all her eflates to the apoftolic fee; and this donation is the true caufe of all the wars which tince that period have raged between the emperors and the popes. She poffefed in her own right great part of Tufcany, Mantua, Parma, Reggio, Placentia, Ferrara, Modena, Verona, and almoft the whole of what is now called the patrimony of St Pcter, from Viterbo to Orvieto; together with part of Umbria, Spoleto, and the Marche of Ancona.

The emperor was at length permitted to throw himfelf at the pontiff's feet; who condelcended to grant him abfulution, after he had fworn obedience to him in all things, and promifed to fubmit to his folenm decifion at Auglburg: fo that Henry got nothing but difgrace by his joutney ; while Gregory, elated by his triunph, and now looking upon himfelf (not altogether without reafon) as the lord and mafter of all the crowned heads in Chrift-ndom, faid in feveral of his letters, that it was his duty "to pull down the pride of kings."

This extraordinary accommodation gave much difgaft to the princes of Italy. 'Ihey never could forgive the infolence of the pope, nor the abject humility of the emperor. Happily, however, for Henry, their indignation at Gregory's arrogance overbalanced their deteftation of his meannefs. He took advantage of this temper; and by a change of fortune, hitherto unknown to the German emperors, he found a ftrong party in Itily, when abandoned in Germany. All Lombardy took up arms againft the pope, while he was raifing all Germany againft the emperor. Gregory, on the other band, made ufe of cvery art to get another emperor elected in Germany : and Henry, on his part, left nothing undone to perfuade the Italians to eleet another pope. The Germans chofe Rodolph, duke of Suabia, Rudolph who was folemnly crowned at Mentz ; and Gregory, chofen emin hefitating on this occafion, behaved truly like the fu- German of preme judge of kings. He had depofed Henry, but ftill it was in his power to pardon that prince: lie therefore affected to be difpleafed that Rodolph was confecrated without his order; and declared, that he would acknowledge as emperor and king of Germany, him of the two competitors who fhould be mol fubmiffive to the holy fee.

Henry, however, trufting more to the valour of his troops than to the generofity of the pope, fet out immediately for Germany, where he defeated his enemies in fereral engagements: and Gregory, feeing no hopes of fubmifion, thundered out a fecond fentence of excommunication againft him, confirming at the fame time the eleation of Rodolph, to whom he fert a golden crown, on which the following well-known verfe, equalIy haughty and puetile, was eingraved.

## Pitra dedir Petro, Potrus diadema Rado.plio.

This donation was allo accompanied with a moft enthufialtic anathema againf Henry. After depriving him of firength and combat, and condemning him neser 60 be vietorious, it concludes with the following remarkable

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Italy.
mariable apoifrophe to St Peter and St Paul: "Make all men fenfible, that as you can bind and loofe every thing in heaven, you can allo upon earth take from or give to every one, according to his deferts, empires, kingdoms, principalities-let the kings and the princes of the age then inflantly feel your power, that they may not dare to defifie the orders of your church; lct your juftice be fo fpeedily executed upon Henry, that nobody may doubt but he falls by your means, and not be chance."

In order to avoid the cfieets of this fecond excommunication, Henry aflembled at Brixen, in the county of Tirol, about 25 German bilhops: who, a Eing alfo for the bifhops of Lombardy, unanimouly refolved, that the pope, inftead of having power over the emperor, owed him obedience and allegiance; and that Gregory V11. having rendered himfelf unworthy of the papal chair by his conduct and rebellion, ought to be depofed from a dignity he fo little deferved. They accordinely degraded Hildebrand; and elected in his room Guibert, arclibifhop of Ravenna, a perfon of undoubted merit, who took the name of Clement III. Henry promifed to put the new pope in poffeffion of Rome : but he was obliged, in the mean time, to employ all his forces againft his rival Rodolph, who had reaffembled a large body of troops in Saxony. 'The two armies met near Merfburg, and both fought with great fury; but the fortune of the day feeraed inclined to Rodolph, when his hand was cut off by the famous Godfrey of Bouillon, then in the fervice of Henry, and afterwards renowned for his conqueft of Jerufalem. Difcouraged by the misfortune of their chief, the rebels immediately gave way; and Rodolph perceiving his end approaching, ordered the hand that was cut off to be brought him, and made a fpeech to his officers on the occafion, which could not fail to have an influence on the emperor's affairs. "Behold (faid he) the hand with which I took the oath of allegiance to Henry; and which oath, at the inftigation of Rome, I have violated, in perfidioully afpiring at an honour that was not my due."

Thus delivered from this formidable antagonift, Henry foon difperfed the reft of his enemies in Germany, and fet out for laly in order to fettle Clement in the papal chair. But the gates of Rome being fluut againft him. he was obliged to attack it in form. The flege continued upwards of two years; Henry during that time being obliged to quell fome infurrections in Germany. The city was at length carried by affault, and with difficulty faved from being pillaged; but Gregory was not taken : he retired into the caftle of St Angelo, and thence defied and excommunicated the conqueror. The new pope was, however, confecrated with the ufual ceremonies; and expreffed his gratitude by crowning Henry, with the concurrence of the Roman fenate and people. Mean while the fiege of St Angelo was going on; but the emperor being ealled about forne affairs into Lombardy, Robert Guifrard took advantage of his abfence to releafe Gregory, who died foon after at Salerno. His laft words, borrowed from the Scripture, were worthy of the greatef faint: "I have loved juftice, and hated iniquity: therefore I die in exile !"

Henry, however, did not enjoy all the advantages

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which might have been expected from the ceath of Gregory. The fubfequent popes trode in the paths of their predecefior. In 1101, Pafcal II. excited young Henry to rebel againf his father. The emperor did all in his power to dilluade him from proceeding to extremities, but in vain. The young prince perffled in his rebellious intentions; and having by feigned libmiffons prevailed on the emperor to diband his army, he treacineroully feized and confined him. Hcnry, however, found means to efcape from his confinement, and attempted to engage all the fovereigns of Europe in his quarrel ; but before any thing effectual could be done, he died at Liege in the year ile 5.

The difpute about inveftitures was not terminated Difpute by the depofition and death of Henry IV. His fon ween tt Henry V. purfued the very fame condue for which he pope anc had depoled his father. Pareal oppofed hrim with violence; upon which Henry gave him an invitation into Germany, to end the difpute in an amicatle manner. Pafcal did not think proper to accept of this invitation ; but put himfelf under the protection of Philip I. king of France, who undertook to mediate between the contending parties. His mediation, however, proved ineffectual, and Henry was prevented by the wars in Hungary and Poland from paying any further attention to the affair of inveftitures. At latt, having fettled his affairs in Germany, he took a refolution of going to Rome, in order to fettle the difpute perfonally with the pope. To give his arguments the greater weight, however, he marched at the head of an army of 80,000 men. Pafcal received him with great appearance of friendhip, but would not renounce the claim of inveftitures; and Henry, finding himfelf deceived in his expectations, ordered the pope to be feized. The conful put the citizens in arms to defend the pope, and a battle was fought within the walls of Rome. The flaughter was fo great, that the waters of the Tiber were tinged with blood. The Romans were defeated, and Pafcal was taken prifoner. The latter renounced his right of inveftiture; folemnly fwore never to refume it, and broke his oath as foon as Henry was gone, by fulminating the fentence of excommunication againft him. In 1114 died the countefs Matilda, who had bequeathed all her dominions to the pope, as we have already obferved; but Henry thinking himfelf the only lawful heir, alledged, that it was not in Matilda's power to alienate her eftates, which depended immediatcly on the empire. He therefore fet out for Lombardy, and fent ambalfadors to the pope, befeeching him to revoke the fentence of excommunication above mentioned. Pafcal, however, would not even favour the ambaffadors with an audience; but dreading the approach of Henry himfelf, he took refuge among the Norman princes in Apulia. Henry arrived at Rome in IIri7; but being foon after obliged to leave it in order to fettle fome affairs in Tufcany, the pope returned to Rome, but died in a few days. On the third day after his deceafe, Cardinal Cajetan was elected his fucceffor, without the privity of the emperor, under the mame of Gelafus II. The new pope was inflantly depofed by Herry ; who fet up the archbifhop of Prague, under the name of Gregory VIII. Gelafius, though fupported by the Norman princes, was obliged to take
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refuge in France, wherc be died ; and the archbillo? of Vienna was elected by the cardinals then prefent under the name of Calixtus II.

The new pope attempted an accommodation with Henry; which not fucceeding, he excommunicated the emperor, the antipope, and his a hherents. He next fet out for Rome, where he was honourably received; and Gregory VIII. was forced to retire to Sutri, a ftrong town garrifoned by the emperor's troops. Here he was befieged by Calintus and the Norman priaces. The city was foon taken, and Gre gory thrown into prifon by his competitor; but at laft, the ftates of the empire being quite wearied out with fuch a long quarrel, unanimoufly fupplicated Henry for peace. He referred himfelf entirely to their decifion; and a diet being aftembled at Wurtzburg, it was decreed that an embafly thould be immediately fent to the pope, defiring that he would convoke a general council at Rome, by which all difputes might be determined. This was accordingly done, and the affair of inveltitures at length regulated in the following manner, viz. That the emperor fhould leave the communities and chapters at liberty to fill up their own vacancies, without bellowing inveftitures with the crofs and ring; that he fhould rellore all that he had unjultly taken from the church; that all elections fhould be made in a canonical manner, in prefence of the emperor or his commiffaries: and whatever difputes might happen fhould be referred to the decifion of the emperor, affilted by the metropolitan and his fuffragans; that the perfon elected thould receive from the emperor the invertiture of the fiefs and fecular rights, not with the crofs, but with the fceptre; and chould pay allegiance to him for thefe rights only.

After the death of Henry, the ufual diforders took place in Italy ; during which, Roger duke of Apulia conquered the illand of Sicily, and affumed the right of creating popes, of whom there were two at that
timiniz. Innocent II. and Anacletus. Roger drove out the former, and Lothario emperor of Germany the latter, forcing Roger himfelf at the fame time to retire into Sicily. The emperor then conducted Innocent back to Rome in trinmph; and having fubdued all Apulia, Calabria, and the reft of Roger's ltalian dominions, erected them into a principality, and beftowed $i t$, with the title of duke, upon Renaud a German prince, and one of his own relations.

In the reign of Conrad I1I. who fucceeded Lothario, the celebrated factions called the Guelphs and Gibelines ${ }^{*}$, arole, which-for many years deluged the cities of ltaly with blood. They took their origin during a civil war in Germany, in which the enemies of the emperor were ftgled Guelphs, and his friends Gibelines; and thefe names were quickly reccived in Italy as well as other parts of the emperor's dominions. O? this civil war many of the cities in Italy took the advantage to fet up for thenfelves; neither was it in the power of Conrad, who during his whole reign was employed in unfuccefsful crufades, to reduce them; but in 1158 Frederic Barbaroffa, fucceffor to Conrad, eniered Italy at the head of a very numerous and well difciplined army. His army was divided into feveral columns, for the conveniency of cntering the country by as many different routes. Having paffed the Alus, be recuced the town of IBrefcia; where he
made feveral falutary regulations for the prefervation Italy. of good order and military difcipline. Continuing to $\underbrace{-\quad \text { Intren }}$ advance, he befieged Milan, which furrendered at dif. cretion. He was crowned king of Lombardy at Monza ; and having made himfelf matter of all the other cities of that country, he ordered a minute inquiry to be let on foot concerning the rights of the empire, and exacted homage of all thofe who held of it, without excepting even the bihhops. Grievances werc redreffed; magillracies reformed; the rights of regality difcuffed and afcertained; new laws enacted for the maintenance of public tranquillity and the encouragement of learning, which now began to revive in the fchool of Bologna; and, above all, fubvaffals were not only prohibited from alienating their lands, but alfo compelled, in their oath to their lords paramount, to except the emperor nominally, when they fwore to ferve and aflift them againtt all their enemies. The pope took umbrage at this bohaviour towards the eccletiaftics : but Frederic juttified what he had done, telling his deputies it was but reafonable they fhould do homage for the fiefs they poffefled; as Ilefus Chrift himfelf, though the lord of all the fovereigns upon earth, had deigned to pay for himfelf and St Peter the tribute which was due to Cæfar.

Frederic having fent commifiaries to fuperintend the election of new magiftrates at Milan, the inhabitants were fo much provoked at this infringement of their old privileges, that they infulted the imperialits, revolted, and refufed to appear before the emperor's tribunal. This he highly refented, and refolved to chattife them feverely: for which purpofe he fent for a reinforcement from Germany, which foon after arrived with the emprefs, while he himfelf ravaged Liguria, declared the Milanefe relels to the empire, and plundered and burnt the city of Crema which was in alliance with that of Milen.

In the mean time, Pope Adrian IV. dying, two oppofite factions elected two perfons known by the names of Victor $I I$. and Alexander 111 . 'The emperor's allies neceflarily acknowledged the pope choten by him; and thofe princes who were jealous of the emperor, acknowledged the other. Victor II. Frederic's pope, had Germany, Bohermia, and one half of Italy on his fide; while the reft fubmitted to Alexander III. The emperor took a fevere revenge on his enemies; Milan was razed from the foundation, and and defalt flrewed on its ruins; Brefcia and Placentia were ftovs Mi. difmantled; and the other cities which had taken part lan, \&c. with them were deprived of their privileges. Alexander III. however, who had excited the revolt, returned to Rome after the death of his rival; and at his return the civil war was renewed. The emperor cauled another pope, and after his death a third, to be elected. Alexander then tied to France, the common afylum of every pope who was opprefied by the cmperors; but the flames of civil difcord which he latd raifed continued daily to fpread. In 1168 , the cities of Italy, fupported by the Greek emperor and the king of Sicily, entered into an allociation for the defence of their liberties; and the pope's party at length prevailed. In inf6, the imperial army, worn out by fatigues and difeafer, was defeated by the confederates, and Frederic himfelf narrowly cfaped. Nbout the fame time, he was defeated at fea by the Venctians;

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to the pope and his cideft fon Henry, who commanded his fleet, fell into the hands of the enemy. The pope, in honour of this rictory, failed out into the open fea, accompanied by thelwhole fenate; and after having pronounced a thoufand benedictions on that element, threw into it a ring as a mark of his gratitude and affection. Hence the origin of that ceremony which is annually performed by the Venetians, under the notion of efpoufing the Adriatic. Thefe misfortunes difpofed the emperor towards a reconciliation with the pope: but, reckoning it below his dignity to make an advance, he sallied his troops, and exerted himfelf with fo much vigour in repairing his lofs, that the confederates were defeated in a battle; after which he made propofals of peace, which were now joyfully accepted, and Venice was the place appointed for a reconciliation. The em-- peror, the pope, and a great many princes and cardi. nals, attended; and there the emperor, in 1177 , put an end to the difpute, by acknowledging the pope, kifling his feet, and holding his firrup while he mounted his mule. This reconciliation was attended with the fubmifion of all the towns of Italy which had entered into an affociation for their mutual defence. 'They obtained a general pardon, and were left at liberty to ufe their own laws and forms of government, but were obliged to take the oath of allegiance to the emperor as their fuperior lord. Calixtus, the antipope, finding himfelf abandoned by the emperor in confequence of this treaty, made alfo his fubmifion to Alexander, who received him with great humanity; and in order to prevent for the future thofe difturbances which had fo often attended the elections of the popes, he called a general council, in which it was decreed, that no pope fhould be deemed duly. elected withou: having two-thirds of the votes in his favour.

The affairs of Italy being thus fettled, Barbaroffa returned to Germany; and hasing quieted fome difturbances which had arifen during his abfence in Italy, at laft undertook an expedition into the Holy Land ; where having performed great exploits, he was
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Frederic
fucceeded by Henry
V1.
the fee, yet he mas much more averfe to the emperor's being put in polleflion of it, as that would render him too powerful in Italy for the intereft of the church. Henry, however, without paying any regard to the threats and remonflrances of his holinefs, took almof all the towns of Campania, Calabria, and Apulia; invelted the city of Naples; and fent for the Genoefe Heet, which he had before engaged, to come and form the blockade by fea : but before its arrival, he was obliged to raife the fiege, in confequence of a dreadful mortality among his troops: and all future attempts upon Sicily were ineffectual during the life of Tancred.

The whole reign of Henry from this time feems to His perl have been a continued train of the moft abominableand cru perfidies and cruelties. Having treacheroulty feized and impifoned Richard I. of EsGland, in the manner related under that article, $\mathbb{N}^{\circ} 128-130$. he had no fooner received the ranfom paid for his royal captive, than he made new preparations for the conquelt of Si cily. As Tancred died ahout this time, the emperor, whth the alfitance of the Genoele, accomplifhed his purpofe. The queen-dowager furrendered Salerno, and her right to the crown, on condition that her fon William fhould poflefs the principality of 'Tarentum; but Henry no fooner found himfelf matter of the place, than he ordered the infant king to be caftrated, to have his eyes put out, and to be confined in a durgeon. The royal treafure was tranfported to Germany, and the queen and her daughter coufined in a convent.

In the mean time, the emprefs, though near the age of 50, was delivered of a fon, named Frederic; and Henry foon after affembled a diet of the princes of Germany, to whom he explained his intentions of rendering the imperial crown hereditary, in order to prevent thofe difturbances which ufually attended the election of emperors. A decree paffed for this purpofe; and Frederic, yet in his cradle, was declared king of the Romans. Soon after, the emperor being folicited to undertake a crufade, obeyed the injunctions of the pope, but in fuch a manner as to make it turn out to his own advantage. He convoked a general diet at Worms, where be folemnly declared his refolution of employing his whole power, and even of hazarding his life, for the accomplithment of fo holy an enterprife; and he expatiated upon the fubject with fo much eloquence, that almoft the whole aflembly took the crofs. Nay, fuch multitudes from all the provinces of the empire enlifted themfelves, that Henry divided them into three large armies; one of which, under the command of the bihhop of Mentz, took the route of Hungary, where it was joined by Margaret, queen of that country, who entered herfelf in this pious expedition, and actually ended her days in Paleftine : the fecond was affembled in Lover Saxony, and embarked in a Heet furnified by the inhabitants of Lubec, Hamburg, Holltein, and Friezland: and the emperor in perfon conducted the third into Italy, in order to take vengeance on the Normans in Naples and Sicily who had rifen againf his government.

The rebels were humbled; and their chiefs were condemned to perilh by the molt exeruciating tortures. One Jornandi, of the houfe of the Norman princes, was tied naked on a chair of red hot iron, and

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cromed with a circle of the fame bu:ning mstal, which was nailed to his head. The emprefs, thocked at fuch cruelty, renounced her fait! to lier huiband, and encouraged her countrymen to recover their liberties. Rcfolution fprung from defpair. The inhabitants betook themfelves to arms; the emprefs Conflantia headed them ; and Henry, having difmiffed his troops, no longer thought neceffary to his bloody purpofes, and fent them to purfue their expedition to the Holy Land, was obliged to fubmit to his wife, and to the conditions which the was pleafed to impofe on him in farour of the Sicilians. He died at Melina in 1197, foon after this treaty; and, as was fuppofed, of poifon adminiftered by the emprefs.

The emperor's fon Frederic had already been declared king of the Romans, and confequently became emperor on the death of his father; but, as Frederic II. was yet a minor, the adminiftration was comnitied to his uncle the duke of Suabia, both by the will of Henry and by an affembly of the German princes. Otter princes, however, incenfed to fee an elective empire become hereditary, held a new diet at Cologne, and chofe Otho duke of Brunfwick, fon of Henry the Lion. Frederic's title was confirmed in a third affembly at Arniburg; and his uncle, Philip duke of Suabia, was elected king of the Romans, in order to give greater weight to his adrsiniftration. Thefe two elections divided the empire into two powerful factions, and involved all Germany in ruin and defolation. Innocent III. who had fucceeded Celellin in the papal chair, threw himfelf into the feale of Otho, and excommunicated Philip and all his adherents. This able and ambitious pontiff was a fworn enemy of the houfe of Suabia; not from any perfonal animofity, but out of a principle of policy. That houle had long been terrible to the popes, by its continual poffeffion of the imperial crown; and the acceffion of the kingdom of Naples and Sicily made it litll more to be dreaded: Innocent, tberefore, gladly feized the prefent favourable opportunity for divelting it of the empire, by fupporting the election of Otho, and fowing divilions among the Suabian party. Otho was allo patronifed by his uncle, the king of England; which naturally inclined the king of France to the fide of his rival. Faction clathed with faction; friendlhip with intereft; caprice, ambition, or refentment, gave the fway; and nothing was beheld on all hands but the horrors and the miferies of civil wars.

Meanwhile, the emprefs Conttantia remaised in Sicily, where all was peace, as regent and guardian for her infant fon Frederic II. who had been crowned king of that ifland, with the confent of Pope Celefin Ill. But the allo had her troubles. A new inveftiture from the holy lee being neceffary, on the death of Celeftin, Innocent III. his fucceffor, took advantage of the critical fituation of affairs for aggrandizing the papacy, at the expence of the kings of Si cily. They poffeffed, as has been alieady obfersed. the privilege of filling up vacant benefices, and of judging all ecclefiaftical caufes in the laft appeal : they were really popes in their own ifland, thoustis valials of his holinefs. Innocent pretended that thefe powers had been furreptitioully ol:tained; and demanded, tbat Conftantia floould renounce them in the neme of her fon, and do liege, pure, and fimple homage for Sicily.

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But before any thing was lettled relatise to this affair, the emprefs died, leaving the regency of the kingdom to the pope; fo that we was cnabled to prefuribe what conditions he thought proper to young Frcderic. The troubles of Germany ftill coutinued; aad the pope redoubled his efforts to detach thee princes and prelates from the caufe of I Philip, notwithtandian the remonflrances of the king of Fra:ace, to whom he proudly replied, "Either l'illp mult lofe the erapire, or I the papacy." But all thefe diffentions and troubles in Europe did not prevent the formation of another cruCade, or expedition into Afia, for the recovery of the Holy Land." Thofe who took the crofs were principally French and Germans: Baldwin, count of Flanders, was their commander; and the Venetions, as greedy of wealth and poser as the ancient Carthaginians, furnithed them with hips, for which they took care to be amply paid both in money and territory. The Chriltian city of Zara, in Dalmatia, had withdrawn itfelf from the government of the republic: the army of the crofs undertook to reduce it to obedience; and it ras befieged and taken, notwithllanding the threats and excommunications of the pope.

While the crufaders were fpreading defolation through the eaft, Philip and Otho were in like manner defolating the weft. At length Philip prevailed; and Otho, obliged to abandon Germany, took refuge in England. Philip, elated with fuccefs, confirmed his election by a fecond coronation, and propofed an accommodation with the pope, as the means of finally eftablihing his throne; but before it could be brought about, he fell a facrifice to private revenge, being affafabout, he tell a facrifice to private revenge, being afiaf-
finated by the count Palatine of Bavaria, whofe daughter he had promiled to marry, and afterwards rejected.
Otho returned to Germany on the death of Philip; ter he had promifed to marry, and afterwards rejected.
Otho returned to Germany on the death of Philip; married that prince's daughter; and was crowned at Rome by Pope Innocent IlI. after yielding to the holy
fee the long-difputed inheritance of the countefs Ma. Rome by Pope Innocent IlI. after yielding to the holy
fee the long-difputed inheritance of the countefs Ma. tilda, and confirming the sights and privileges of the Italian cities. But thefe conceffions, as far at leaft as regarded the pope, were only a facrifice to prefent poregarded the pope, were only a facrifice to prefent po-
licy: Otho, therefore, no fooner found himfelf in a condition to act offenfively, than he refumed his grant;
and in 1210 not only recovered the poffeffions of the condition to act offenfive!y, than he refumed his grant;
and in 1210 not only recovered the poffeffions of the empire, but made hoftile incurfions into Apulia, ravaging the dominions of young Frederic king of $\mathrm{Na}-$ ples and Sicily, who was under the protection of the ples and Sicily, who was under the protection of the
holy fee. For this reafon he was excommunicated by Innocent; and Frederic, now 17 ycars of are, was elected emperor by a diet of the German princes. O. tho, however, on his return to Germany, finding his party flill confideraule, and not doubting but he foould be able to humble his rival by means of his fuperior force, entered into an alliance with his uncle John king of England, againt Philip Augutus king of France, A. D. 1213 . The unfortunate battle of BouFrance, A. D. 1213 . The unfortunate battle of Bouthe fate of Otho. He attempted to retreat into Germany, but was prevented by young Frederic; who
had marched into the empire at the head of a powermany, but was prevented by young Frederic ; who
had marched into the empire at the head of a powerful arnyy, and was everywhere received with omen
arms. Tlus abandoned by all the princes of Germaful arniy, and was everywhere received with onen
arms. Haus abandoned by all the princes of Germany, and altogether without refource, Otho retired (') Branfinick. where he lived four years as a private man, dedicating his tine to the duties of religion.

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Freduric II. being now univerfally acknowledged emperor, was crowned at Aix-la. Chapelle in 1215 , with great magnificence; when, in order to preterve the favour of the pope, lie added to the other folemnities of his coronation a vow to go in perfon to the Holy Land.
'The bad fuccefs of this expedition hath been already taken notice of under the article Croisade. The emperor had, on various pretences, refufed to go into the
fuing the fame line of policy, urged the doparture of Frederic for the Holy Land; and fincline the emperor ftill backward, declared him incamble of the imperal dignity, as having incurred the fentence of excommunication. Frederic, incenfed at fuch infolence, ravaged the patrimony of St Peter; and was afually excommunicated. The animofity between the Guelphs and Gibellines revived; the pope was obliged to quit Rome; and ltaly became a fcene of war and defolation, or rather of an hundred civil wars; which, by innlaming the minds and cxciting the refentment of the ltalian princes, accultomed them but too much to the horrid practices of poifoning and affallination.

During thefe tranlactions, Frederic, in order to remove the caufe of all thefe troubles, and gratify the prejudices of a fupertitious age, by the advice of his friends refolved to perform his vow : and he accordingly embarked for the Holy Land, leaving the affairs of His expe Italy to the management of Renaldo duke of Spoleto. The pope prohibited his departure before he thould be abfolved from the cemfures of the church; but Frederic went in contempt of the church, and fucceeded better than any perfon who had gone before him. He did not indeed defolate Afia, and gratify the barbarous zeal of the times by fpilling the blood of infidels; but he concluded a treaty with Miliden, foldan of Egypt and matter of Syria, by which the end of his expedition feemed fully anfwered. The foldan ceded to him Jerufalem and its territory as far as loppa ; Bethlehem, Nazareth, and all the country between Jerufalem and Ptolemais; Tyre, Sidon, and the neighbouring territories: in return for wihich, the emperor granted the Saracens a truca of ten years; and in 1230 prudently returned to Italy, where his prefence was much wanted.

Frederic's reign, after his return from the eaft, was one continued quarrel with the popes. The cities of Lombardy had revolted during his abfence, at the inftigation of Gregory IX.; and before they could be reduced, the fame pontiff excited the emperor's fon Henry, who had been elected king of the Romans, to rebel againft his father. The rebellion was fupprefled, the prince was confined, and the emperor obtained a complete victory over the affociated towns. But his troubles were not yet ended. The pope excommunicated him anew, and fent a bull, filled with the moft abfurd and ridiculous language, into Germany, in order to fow divifion between Frederic and the princes of the empire.

Frederic retorted in the fame ftrain, in his apology to the princes of Germany, calling Gregory the Great Dragon, the Antichrif, \&c. 'The emperor's a pology was fuftained in Germany; and finding he had nothing to fear from that quarter, he refolved to take ample vengeance on the pope and his affociates. For that purpole he marched to Rome, where be thought his party was ftrong enough to procure him admifion; but this favourite icheme was defeated by the activity of Gregory, who ordered a crufade to be preached againft the emperor, as an enemy of the Chriftian faith; a ftep which incenfed Frederic fo much, that he ordered all his prifoners who wore the crofs to be expofed to the moft cruel tortures. The two factions of the Guelphs and Gibellines continued to rage with greater violence than ever, involving cities, difficts,
civil butchery; no quarter being given on eithe: fide. Meanwhile Gregory IX. died, and was fucceeded in the fee of Rome by Celeftin IV. and afterwards by Innocent IV. formerly Cardinal Fiefque, who had always exprefled the greateft regard for the emperor and his intereft. Frederic rras accordingly congratulated upon this occafion: but having more penetration than thofe about him, he fagely replied, "I fee littie reafon to rejoice; the cardinal was my friend, but the pope will be my enemy." Innocent foon proved the jultice of this conjecture. He attempted to negotiate a peace for Italy; but not being able to obtain from Frederic his exorbitant demands, and in fear for the fafety of his own perfon, he fled into France, allembled a géneral council at Lyuns, and in 1245 deyofed the emperor.

Conrad, the emperor's fecond fon, had already been declared king of the Roranns, on the death of his brother Henry, which foon followed his confinement ; but the empire being now declared vacant by the pope, the German bilhops (for none of the princes were prefent), at the infligation of his holinefs, proceeded to the election of a new emperor ; and they chofe Henry landgrave of Thuringia, who was flyled in derifion, The king of priefls. Innocent now renewed the crufade againlt Frederic. It "as proclamed by the preachjng friars, fince called Dominicans, and the minor friars, known by the name of Cordeliers or Francifans. The pope, however, did not confine himfelf to thefe meafures only, but eng:ged in confpiracies againt the life of an emperor who had dared to refitt the decree of a council, and oppofe the whole body of the monks and zealots. Frederic's life was feveral times in danger from plots, poifonings, and affaffuations; which induced him, it is faid, to make choice of Mahometan guards, who, he was certain, would not be under the intluence of the prevailing fuperflition.

About this time the landgrave of Thuringia dying, the fame prelates who had taken the liberty of creating one emperor made another; namely, William count of Holland, a young nobleman of 20 years of age, who bore the fame contemptuous title with his predeceffor. Fortune, which had hitherto favoured Frederic, feemed now to defert him. He was defeated before Parina, which he had long befieged; and to complete his misfortune, he fonn after learned, that his natural fon Entius, whom he had made king of Sardinia, was worfted and taken prifoner by the Bolognefe.

In this extremity Frederic retired to his kingdom of Naples, in order to recruit his army; and there died of a fever in the year 1250 . After his death, the affairs of Germany fell into the utmoft confufion, and Italy continued long in the fame diffacted flate in which he bad left it. The clergy touk arms againf the laity; the weak were opprefied by the frong; and all laws divine and human were difregarded. A.fter the death of Frederic's fon Conrad, who had affiuned the imperial dignity as fucceftor to his father, and the death of kis competitor William of Holland, a varicty of candidates appeared for the empire, and feveral were elected by different factions; among whom was Richard earl of Cornwall, brother to Henry 11. King of Engiand: but no emperor was pronerly acknowledged till the year 1273, when Rudolph, count or Hajulurg,
was manimouliy raifed to the vacant throne. During Kens. the interregnum which preceded the clection of Ro.. dolph, Denmark, H illand, aud Hungary, eutirely Defme freed themfelves from the homage they were wont tu dhe powes pay to the empire; and much about the lame time fe-of the licrveral German cities erceted a municipal form of go-manemvernment, which Atill continues. Lubec, Cologne, perur. Bruntwic, and Dantzic, united for their mutual defence againil the encroachments of the great lords, by a famous affociation, catied the Henfeatic leagne; and the le towns were afterwards joined by 80 uthers, belonging to different ftates, which formed a kind of commercial republic. Italy alfo, during this pertod, affumed a new plan of government. That freedom for which the cities of Lombardy had fo long Atruggled, was confirmed to them for a fum of money: they were emancipated by the fruits of their induftry. Sicily likewife changed its government and its prince ; of which revolution a particular account is given under the article Sicif.y.

From the time of Frederic II. we may date the ruin of the German power in Italy. The Florentines, the Pifans, the Genoele, the Luccans, \&c. became indcpendent, and could not again be reduced. The power of the emperor, in fhort, was in a manner annililated, when Henry VII. undertook to reltore it in the beginning of the $4^{\text {th }}$ th century. For this purpoic a diet was held at Francfort, where proper fupplies being granted for the emperor's journey, well known by the 588 name of the Romern expedition, he fet out for Italy, ac- ff Henry companied by the dukes of Aultria and Bavaria, the VIt. into archbilhop of Triers, the bihop of Liege, the counts ${ }^{\text {traly. }}$ of Savoy and Flanders, and other noblemen, together with the militia of all the imperial towns. Italy was Itill divided by the factions of the Guelphs and Gibellines, who butchered one another without humanity or remorfe. But their contef was no longer the fame: it was not now a ftruggle between the empire and the priefthood, but betwcen faction and faction, istlamed by mutual jealoufies and animofities. Pope Clement V. had been obliged to leave Rome, which was in the anarchy of popular government. The Colomas, the Urfini, and the Roman barons, divided the city; and this diviñon was the caufe of a long abode of the popes in France, io that Rome fcemed equally loft to the popes and the emperors. Sicily was in the potefion of the houfe of Arragon, in conlequence of the famous maflacre called the Secilian uefpers, which delivered that illand from the tyranny of the French *. Carobert,* see $S_{i-}$ king of Hungary, difputed the kingdom of Naplescily. with his uncle Robert, fon of Charles II. of the houfe of Anjou. The houle of Ette had eftablithed itfelf at Ferrara; and the Ventians wanted to make themfelves mafters of that country. The old league of the Italian cities no longer fublifted. It had been formed with no other view than to oppofe the emperors: and fince they had neglected Italy, the cities were wholly employed in aggrandiring themfelves, at the expence of each other. The Florentines and the Genocfe made war upon the republic of Pifa. Every city was allo divided into factions within itfelf. In the midll $o_{0}$. thefe troubles Henry VII, appearcd in ltaly in the year 121 I , and caufed himfelf to be crowned king of Lom'ardy at Milan. But the Guelplis had concealed the old iron crown of the Lumbard kings, as

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Toely if the dight of reigning werc attached to a fmail circlet of metal. Henry ordered a new crown to be mane, with which the cercmony of inauguration was jeriormed.

Cremona was the firit place that ventured to oppofe the emperor. He reduced it by force, and laid it under heasy contributions. Parma, Viccnza, and Placentia, made peace with him on reafonable conditions. Padua paid 100,000 crowns, and reccived an imperial oficer as governor. The Ventians prefented Henry with a large fum of money, an imperial crown of gold enriched with diamonds, and a chain of very curious workmanfhip. Brefcia made a defperate refiftance, and fuitained a very fevere fiege; in the courfe of which the emperor's brother was flain, and his army diminifhed to fuch a degree, that the inhabitants marched cut under the command of their prefeet. Thibault de Druffati, and gave him battle: but they were repulfed with great lofs, after an obflinate engagenent ; and at laft obliged to fubmit, and their city was difmantled. From Brefcia Henry marched to Genua, where he was received with expreffions of joy, and fplendidly entertained. He nest proceeded to Rome; wherc, after much bloodthed, he received the imperial crown from the hands of the cardinals. Clement V. who had originally invited Henry into Italy, growing jealous of his fuccefs, had leagued with Robert ling of Naples and the Urfini faction, to oppofe his entrance into Rome. He entered it in fpite of them by the affillance of the Colonnas. Now mafter of that ancient city, Henry appointed it a governor ; and ordered, that all the cities and ftates of Italy ihould pay him an annual tribute. In this order he comprehended the kingdom of Naples, to which he was going to make good his claim of fuperiority by arms, when he died at Benevento in 1313 , as is commonly fuppofed, of poifon given him by a Dominican friar, in the confecrated wine of the facrament.

The efforts of Henry VII. were unable to reflore the imperial fower in Italy. From this time the authority of the emperor in that country confifted in a great meafure in the conveniency which the Gibellines found in oppofing their enemies under the fanction of his name. The power of the pope was much o? the fame nature. He was lefs regarded in Italy than in any other country in Chrillendom. There was indeed a great party who called themfelves Guc/phs; but they affected this diftinction only to keep themfelves indeperdent of the imperialifts; and the flates and rinces who called themfelves Guelphs paid little more acknowledgement to his holinefs than fheltering thenselves under his name and authority. The moll deljerate wars were carried on by the different cities again!t each other; and in thefe wars Caftruccio Caftraccani, and Sir John Hawkwood an Englithman, are celebrated as heroes. A detail of thefe tranfactions would furnilh materials for many volumes; and after all feems to be but of little importance, fince nothing material was effected by the utmoil efforts of valour, and the belligerent fates were commonly obliged to make peace without any advanl.ge on either fide. By degrees, however, this martial fpirit fu'sfided; and in the year 1492, the Italians vicre fo little capable of refifting an enemy, that Charles VIll. of France conquered the whole kingcuan of Naples in fix weeks, and might eafily have fub-
dued the whule country tat it nut been for his owninnprudence. Another attempt on Italy was made by Louis XII. and a third by Francis I. as related muder the article France. In the reigns of Louis XlII. and XIV, an obitinate war was carried on between the Frencis and Spaniards, in which the Italian Itates bore a very coniderable flare. The war concluded in 1660 , with very little advantage to the French, who lave been always unfuccefsful in their Italian wars. The like bad luccels attended thens in that part of the world, in the war which commenced between Britain and Spain is the year 1740 . But the particulars of thele wars, with regard to the different itates of Italy, naturally fall to be confidered under the hiftory of thofe flates into which the country is now divided; viz. Sardinia, Milan or the Milanefe, Genoa, Venice, Tufcany or Florence, Lucca, St Marino, Purma, Mantua, Modena, Rome, and Naples.

The air in Italy is very different, according to the tir, 70 different fituations of the feveral countries contained in Ita'y. it. In thofe on the north of the Apennines it is more temperate, but on the fouth it is generally very warm. The air of the Campania of Rome, and of the Ferrarefe, is faid to be unhealthful ; which is owing to the lands not being duly cultivated, nor the mariles drained. That of the other parts is generally pure, dry, and healthy. In fummer, the heai is very great in the kingdom of Naples; and would be almoil intolerable, if it was not fomewhat aileviated by the fea breezes. The foil of Italy in general is very fertile, being watered by a great number of rivers. It produces a great variety of wines, and the bell oil in Europe ; excellent filk in abundance; corn of all forts, but not in fuch plenty as in fome other countries; oranges, lemons, citrons, pomegranates, almonds, rainins, fugar, mul-berry-trees without number, figs, peaches, nectarines, apricots, pears, apples, filberts, chefnuts, \&c. Moft of thefe fruits were at firlt imported by the Romans from Alia Minor, Greece, Africa, and Syria, and were not the natural products of the foil. 'The tender plants are covered in winter on the north fide of the Apennines, but on the fouth fide they have no need of it. This country allo sields good pallure; and abounds with cattle, theep, goats, buffaloes, wild boars, mules, and horfes. The foreits are well fored with game; and the mountains yield not only mines of iron, lead, alum, fulphur, marble of all forts, alabafter, jafper, porphyry, \&c. but alfo gold and filver; with a great variety of aromatic herbs, trees, fhrubs, and evergreens, as thyme, lavender, laurel, and bays, wild olive trees, tamainds, juniper, oaks, and pines.

A very extenfive trade is carried on in many places in Italy, particularly at Leghorn, Genoa, Bologna, Venice, and Naples; the country having a great variety of commodities and manufactures for exportation, efpecially wine, oil, perfumes, fruits, and filks. Trave!lers allo bring large fums of money into Italy, befides what they lay out in pictures, curiofities, relics, antiquities, \&c.

The Italians are generally well proportioned, though Drcis, ${ }^{71}$ their complexions are none of the beit. As to drefs, pofition, they follow the fafhions of the countries on which they sec. of $t$ border, or to which they are fubject; namely, thofe of France, Spain, and Germany. With refpect to their genius and tafte in architenture, painting, c ?rving, and


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Italy, noufic, they are thought to cxcel greatly, and to leave the other nations of Eurnpe far behird them; but their mufic feems too foft and effeminate to deferve all the praife bellowed on it; and their houfes are far inferior to thofe of England in refpect of convenience. No country bath produced betier politicians, hittorians, pocts, painters, and fculptors; we mean fince the revival of the arts and fciences, exclufive of thofe of ancient times. 'I'he Italians are very' affable, courteous, ingenious, fober, and ready-witted; but extremely jealous, vindictive, lafcivious, ceremonious, and fuperfitious. In refpect to jealoufy, indeed, it is faid a very extraordinary change has taken place ; and that the ltalians are now no lefs indulgent and complaifant to their wives than the moll polite hubands in France itfelf. In their tempers, the Italians feem to be a good medium between the French and Spaniards; neither fo gay and volatile as the one, nor fo grave and folemn as the other. Boiled fnails, ferved up with oil and pepper, or fried in oil, and the hinder parts of frogs, are ıeckoned dainty dithes. Kites, jackdaws, lawks, and magpies, are alfo eaten not only by the common people but by the tetter fort. Wine is drank here both in fummer and winter cooled by ice or fnow. The women affect yellow hair, as the Roman ladies and courtezans formerly did. They alfo ufe paint and waflies, both for their hands and faces. The day here is rechoned from funfet to funfet, as the Athenians did of old.

Amid the convulfions which agitated Europe in confeguence of the French revolution, the different fates of Italy were not permitted to enjoy repofe. Bonaparte, whofe unprecedented and extraordinary fuccefs has hitherto even exceeded his military talents, made a rapid conquel of the whole of this country; the battles of Arcola and Lodi are memorable for the defperate valour with which they were fought, and Mantua furrendered on the 2d of February 1797, at ten o'clock at night. The immediate conlequence of thefe fucceffis was the conque!t of the popilh territories, which was net effected without the effulion of much blood. Difierent changes and modifications were made in its political conftitution after thefe victories, and the emperor of France was in the iffue proclaimed king of Italy. A detail of military and other tranfaction in ltaly, in fo far as they flood connected with the political fchemes and conquefts of the French government, has already been given under the article France, to which we refer our readers.

According to Boetticher, the prefent population of Italy including the iflands of Sicily and Sardinia, cught not to be eflimated at more than $13,000,000$. The kingdonn of Naples and Sicily is fuppofed to contain about $6,000,000$; the central part about $3,000,000$; and the northern part about $4,000,000$.

ITCH, a cutaneous difeafe, appearing in fmall watery puftules on the fkin; commonly of a mild nature, though fonsetimes attended with obftinate and dangerous fymptoms. See Medicise Index.

Itch-Infect. See Acarus, Extomolocy Index.
In lpeaking of the manner of finding thefo infecis in the itch, Fabricius obferves, that the failure of many who have fought for them has been owing to their having expected to meet with them in the larger veficles that contain a yellowifh fluid like pus; in thefe,
however, he tells w, he has never found tic:n, $t a t$ in thofe pullules only which are recent, and contain oily a watery fluid. We mult thencfore, he observes, mot expect to find them ia the fame proportionate number in patients who for many months have been allliked wilh the difeafe, as in thofe in whom its appeatance is recent, and where it is confined to the fingers or wrifts. The caufe of this difference with refpect to the pultules, he conjectures, may be owing to the death of the int fect after it has depofited its eggs.

A finall tranfparent peficle being found, a very minute white point, diltinct from the furrounding fluid, may be $\&$ "uvered, and very ofien even without the affiftance of a glafs; this is the infect, which may be eafily taken out on the point of a needle or penkinife, and when placed on a green cloth may be feen much more difinctly, and oblerved to move. All this, we muit remark, prohably depends on optical deception.

ITEA, a genus of $\Gamma^{\text {lants }}$ belonging to the pentandria clafs; and in the natural method ranking with thofe of which the order is doubtiful. See Botany Index:

I'HACA, in Ancient Geography, an illand in the Ionian fea, on the coalt of Epiru; the country of Ulyffes, near Dulichium, with a town and port fituated at the foot of Mount Neius. According to Pliny it is about 25 miles in compals; according to Areenidorus only 10 ; and is now found to be oaly eight miles round. It is now uninhabited, and called fathaco.

ITINERARY, ltinerariua; a journal or an account of the diftances of places. The moft remarkable is that which goes under the names of Antoninus and Ethicus; or, as Barthius found in his copy, Antoninus Ethicus; a Chriltian writer, poflerior to the times of Conlantine. Another, called $H$ icofolymitanum, from Bourdeaux to Jerufalem, and from Heraclea through Aulona and Rome to Milan, under Conflantine.Itinerarium denotes a day's march.
ITIUS portus, in Ancient Geography, the crux geograpliorum, fuch being the difficulty of afce:taining its pofition. It would be endlefs to recite the feveral opinions conceming it, with the feveral reafons advanced in fupport of them. Three ports are mentioned by Cefar; two without any particular name, siz. the Higher and the Lower, with refpect to the Portus Itius. Calais, Boulogne, St Oncr, and Whitfand, have cach in their turn lad their feveral advocates. Cefar gives two dillinctive characters or marks which feem to agree equally to Boulogne and Whitfand, namely, the fhortnefs of the paflige, and the fituation between two other ports; therefore nothing can with certainty be determined about the fituation of the Portus Itius.
lTYS, in fabulous hiftory, a fon of Tereus king of Thrace, by Procne daughter of Pandion king of Athens. He was killed by his mother when he was aloout fix years old, and ferved up before his father. He was changed into a pleafant, his mother into a fwallow, and his tather into an owh.
itzecuintepotzotli, or Husch-backen Dog, a Mexican quadruped fimilar to a dog. It is as large as a Maltefan dog, the fhin of which is varied with white, tawny, and black. 'i'he chatacterittic mar!is a great hunch which it bears from its neck to its rump. This animal abounds moft in the kingdom of Michuacan.

ITZEHO

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ITZLHOA, an ancient and landfome town of Germany, in the circle of Lower Saxony, autd duchy of Holtein. It belongs to the king of Denmark, and is feated on the river Stoer, in E. Long. 9. 25. N. Lat. 54. 8.

IVA, a genus of plants belonging to the moncecia clals; and in the natural method ranking under the 49 h order, Compofitue. See Borany Index.

IVAHAH is the name of a canne of the South fea illanders for fhort excurfions to fèa: it is wall-fided, Hat-bottomed, and of different, fizes, from 72 feet to 10: but their breadth is by no means in proportion; for thofe of ten feet are about a foot wion and thofe of more than 70 are farcely two. The fighting ivahah is the longeft, with its head and fern confiderably raifed. The fifing ivahahs are from 40 feet long to 10 ; thofe of 25 feet and upwards occationally carry fail. The travelling ivahah is always duuble, and furnithed with a fmall neat houfe.

JUAN de Fuca, a frait on the north-weft coaft of America, was furveyed by Captain Vancouver, and the entrance of which he places in N. Lat. 48. 20. and W Long. 124. The object of this furvey was to difcover a communication between the North Pacific and North Atlantic oceans; but none of the inlets or channels in this broken coaft was found to extend more than 100 miles ti) the eaftward of the entrance into the ftrait.

Thus it appeared, that the land forming the north fide of that lirait is part of an ifland, or of an archipelago, extending nearly 100 leagues in length from fouth-ealt to north-weit ; and on the fide of this land, moff diftant from the continent, is fituated Nootka found. The moft peculiar circumftance of this navi. gation is the extreme depth of water, when contrafted with the narrownefs of the channels.

The people of Juan de Fuca are faid to be well verfed in the principles of trade, which they carry on in a very fnir and honourable manner. The commodities mof prized by them are copper, fire-arms, and great-coats. 'Their drefles, befides fkins, are a kind of woollen garments. According to Vancouver, the dogs belonging to this tribe of Indians are numerous, refembling thofe of Pomerania, though larger in general. The population even in the greatelt towns or villages does not exceed 600 , and the fmallpox is reckoned to be a difeafe very fatal among them. Their method of difpofing of their dead is fingular. "Bakkets (fays Vancouver) were found fufpended on high trees, each containing the fkeleton of a young child, in fome of which were alfo fmall fquare boxes filled with a kind of white pafte, refembling fuch as I had feen the natives eat, fuppofed to be made of the faranne root: fome of thefe boxes were quite full ; others were nearly empty, eaten probably by the mice, fquirrels, or birds."

Juan, it, de la Frontera, a town of Soutls America, in Chili, in the province of Chiquito, near the lake Guanacho. The territory of this town is inhabited by 20,000 native Americans, who are tributary to Spain. It contains mines of gold, and produces a kind of almonds that are very delicate. It is feated at the foot of the Andes, in W. Long. 66. 35. S. Lat. 23.25.

Jusar de Porto Rico, an illand of America, and one of the Caribbees, being 100 miles in length and 50 in breadth. It belongs to the Spaniards; and is full of rery high mountains, and extremely fertile valleys,
interfperfed with wouds, and weil watered rith fprings and rivulets. It produces lugar, rum, ginger, corn, and fruits; partly proper to the climate, and partly introduced from Spain. Befides, there are fo many caitle, that they often kill them for the lake of the fini, alone. Here are a great number of uncommon trees, and there is a little gold in the north part of the inland. It is commonly faid that the air is healthy; and yet the earl of Cumberland, when he had taken this illand, lout nofl of his men by ficknefs; and for that reafon was furced to abandon it. This happened in the reign of Queen Elizabeth. It is fubject to dtorms and hurricane:, like the reft of thele illands. It lies to the ealt of Hifpaniola, at the dillance of 50 miles.

Juan de Porto Rico, the capital town of the illand of Porto Rico, with a good harbour defended by feveral forts, and a bilhop's fee. It is feated on the north coatt of the illand, in W. Long, 65.35. N. Lat. 18. 30.

Jusn Fernanderz, an illand in the great South fea, in S. Lat. 33. 40. and WT. Long. 78 30. from London. It was turmerly a place of refort for the buccaneers who annoyed the wellern cuait of the Spanith continent. They were led to refort hither from the multitude of guats which it nourifhed; to deprive their enemies of which advantage, the Spaniards tranfported a confiderable number of dogs, which increafing great. ly, have almof extirpated the goats, who now only find fecurity among the feep mountains in the northerm parts, which are inacceffible to their purfuers. There are inftances of two men living, at different times, alone on this illand for many years; the one a Mufquito Indian; the other Alesander Selkirk, a Scotchman, who was, after five years, taken on board an Englifh thip, which touched here in about 1710 , and brought back to Europe. From the hintory of this reclufe, Daniel Defoe is faid to have conceived the idea of writing the adventures of Robinfon Crufoe. This ifand was very propitious to the remains of Commodore Anfon's fquadron in 1741 , after having been buffeted with tempefts, and debilitated by an inveterate fcurvy, during a three months paffage round Cape Horn: they continued here three months; during which time the dying crews, who on their arrival could farcely witl one united effort heave the anchor, were rettored to perfect health. Captain Carteret, in the Swallow, in 1767 , having met with many difficulties and impediments in his paffage into the South fea, by the ftraits of Magelhaens, attempted to make this ifland in order to recruit the health of his men; but he found it fortified by the Spaniards, and therefore chofe rather to proceed to the ifland of Mafafuero. But M. de Bougainville that fane year is faid to have touched here for refrefhments, although in the narrative of the voyage the fact is cautiounly fupprefled. This ifland is not quite-15 miles long and about fix broad; its only fafe harbour is on the north fide. It is faid to have plenty of excellent water, and to abound with a great variety of efculent vegitables highly antifcorbutic ; befides which, Commodore Anfon fowed a varicty of garden-feeds, and planted the flones of plums, apricots, and peaches, which he was many years afterwards informed had thriven greatly ; and now doubtlefs furnih a very valuable addition to the natural productions of this fpot. Vaft thoals of fifh of
various kinds frequent this coaft, particularly cod of a prodigious lize There are but few birds here, and thofe few are of fecies well known and common.

FUAN Blanco, or White fack, a Spanith n:me for platina. See Platina, Cuemistry Index.

JUBA, a king of Numidia and Mauritania. He had fucceeded his father Hiempfal, and he favoured the caufe of Pompey againt Julius Cafar. He defcated Curio whom Ciefar had fent to Africa, and after the battle of Pharfalia he joined his forces to thofe of Scipio. He was conquered in a battle at Thapfus, and totally abandoned by his fubjects. He killed himfelf with Petreius, who had ftared his good fortune and lis adserlity, in the year of Rome 707. His kingdom became a Roman province, of which Salluft was the firll governor.

Juba II. fon of the former, was led among the captives to Rome to adorn the triumph of Cafar. His captivity was the fource of the greatelt honours, and his application to ftudy procured lim more glory than he would have obtaimed from the inheritance of a kingdom. He gained the heart of the Romans by the courteoufnefs of his manners, and Auguftus rewarded his fidelity by giving him in marriage Cleopatra the daughter of Antony, and conferring upon lim the title of kineg, and making him mafter of all the territories which his father once poffeiled, in the year of Rome 723. His popularity was fo great, that the Mauritanians rewarded his benevolence by making him one of their gods. The Athenians railed him a Itatue, and the Ethiopians worlhipped him as a deity. Juba wrote an hiftory of Rome in Greek, which is often quoted and commended by the ancients. Of it only few fragments semain. He alfo wrote on the hiftory of Arabia, and the antiquities of Affyria, chietly collected from Berofus. Befides thefe, he compofed fome treatifes upon the drama, Roman antiquities, the nature of animals, painting, grammar, \&c. now loft.

JUBILEE, among the Jews, denotes every fiftieth year ; being that following the revolution of feven weeks of years; at which time all the flares were made free, and all lands reverted to their ancient owners. The jubilees were not regarded after the Babylonim captivity. -The word, according to fome authors, comes from the Hebrew, jobel, which fignifies fifty: but this muft be a miltake, for the Hebrett $6=r$, jobel does not dignify fifty ; neither do its letters, taken as cyphers, or according to their numerical powers, make that number; being $10,6,2$, and 30 , that is, 43 ._Others fay, that jobel fignifies a ram, and that the jubilee was thus called, becaufe proclaimed with a sam's horn, in menory of the ram that appeared to Abraham in the thicket. Mafius choofes to derive the word from $\mathcal{F}^{\prime}$ bal , the firf inventor of mutical inllruments, which, for that reafon, were called by his name; whence the words jobel and jubilee came to fignify the year of deliverance and remiffion, becaufe proclaimed with the found of one of thofe inftruments which at firft was no more than the horn of a rama. Others derive jobel from I=, jabal in hiphil bran, hobil, which fignifies to recal or return ; becaufe this year reftored all flases to their liberty, \&c. The inftitution of this feftival is in Lev. xxv. 8, 17 .

The learned are divided about the year of jubilee; fome maintaining that it was cvery forty-ninth, and
others that it was every fiftieth, year. The ground of Jnbilee. the former opinion is chiefly this, that the forty-ninth year being of courfe a fabbatical year, if the jubilee had been kept on the fiftieth, the land mull have had two fabbaths, or have lain fallow two years, which, without a miracle, would have produced a dcarth. On the other hand, it is alleged, that the Scripture exprefsly declares for the fiftieth year, Lev. axv. 10, 11. And befides, if the jubilce and fabbatical year had been the fame, there would have been no need of a prohibition to fow, reap, \&c. becaufe this kind of labour was prohibited by the law of the fabbatical year, Lev. xxv. 4, 5. The authors of the Univerfal Hittory, book i. chap. $7 \cdot$ note $R$, endeavour to reconcile thefe opinions, by obferving, that as the jubilee began in the firl month of the civil year, which was the feventh of the ecclefialtical, it might be faid to be either the forty-ninth or fiftieth, according as one or other of thefe compurations was followed. The political defign of the law of the jubilee was to prevent the too great oppreffions of the poor, as well as their being liable to perpetual llavery. By this means a kind of equality was preferved through all the families of Ifrael, and the ditlinction of tribes was alfo preferved, that they might be able, when there was occafion, on the jubilee-year, to prove their right to the inheritance of their ancefors. It ferved alto, like the Olympiads of the Greeks, and the Iultra of the Romans, for the readier comptration of time. The jubilee has alfo been. Suppofed to be typical of the gotpel ftate and difpenfation, defcribed by Ifaiah, lxi. ver. 1,2. in reference to this period, as the "acceptable year of the Lord."

Jubilee, in a more modern fenfe, denotes a grand church folemnity or ceremony, celebrated at Rome, wherein the pope grants a plenary indulgence to all finners; at lealt to as many as vifit the churches of St Peter and St Paul at Rome.

The jubilee was firft eftablifhed by Boniface VII. in 1300, in favour of thofe who fhould go ad limina apo. jtolorum; and it was enly to return every hundred years. But the firlt celebration brought in fuch fore of wealth to Rome, that the Germans called this the golden year; which occafoned. Clement VI. in 134?, to reduce the period of the jubilee to fifty years. Urban VI. in $13^{89}$; appointed it to be held every thirtyfive years, that being the age of our Sariour; and Paul 11. and Sixtus IV. in 1475 , brought it down to every twenty five, that every perfon might have the bencfit of it once in his life. Eoniface IX. granted the privilege of holding jubilees to feveral princes and munalteries : for inftance, to the monks of Canterbury, who had a jubilee every fifty years; when people tlocked from all parts to vifit the tomb of Thomas à Pecket. Jubilees are now become more frequent, and the pope grants them as often as the church or himelf have occafion for them. There is ufually one at the inauguration of a new pope. To be entitled to the privilcges of the jubilec, the bull enjoins fakings, alms, and prayers. It gives the prieits a full power to abfolve in all cales, even thofe otherwife referved to the pope; to make commutations of vows, \&c. in which it differs from a plenary indulaence. During the time of jubilee, all other indulgenecs are !uppended.

One of our kince, riz. lidwird 111. cauled his birthday to be obferved in manner of a jubiiee, when he

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became fifty years of age, in $1_{3} 62$, but never before or after. This he did by relealing prifoners, pardoning all offences except treafon, making good larss, and granting many privileges to the people.
There are particular jubilees in certain cities, when feveral of their fealls fall on the fame day: at Puy en Velay, for inftance, when the feaft of the Annunciatiun happens on Good-Friday; and at Lyons when the feaft of St John Baptint concwis with the fealt of Corpus Chrifti.

In 1640, the Jefuits celebrated a folemn jubilee at Rome; that being the centennary or hundredth year from their inflitution; and the fame ceremony was obferved in all their houfes throughout the world.
JUCATAN, or Yucatax, a large province of New Spain in North America, which is a peninfula. It is over againft the ifland of Cuba, and contains a large nuantity of timber, proper for building llips; as alfo fugar, caffia, and Indian corn. The original inhabitants are few, they having been very ill ufed by the Spaniards. Merida is the capital town. It is a flat level country; and is very unhealthy, which may be owing to the frequent inundations.
JUDAH, the fourth fon of Jacob, and father of the clhief of the tribes of the Jews, diftinguifhed by his name, and honoured by giving birth to the Meffiah, died 1636 B. C.
Yudan Hakładof, or the Saint, a rabbi celebrated for his learning and riches, lived in the time of the emperor Antoninus, and was the friend and preceptor of that prince. Leo of Modena, a rabbi of Venice, tells us, that Rabbi Judah, who was very rich, collected about 26 years after the deftruction of the temple, in a book which he called the Mifnia, the conflitutions and traditions of the Jewih magiftrates who preceded him. But as this book was fhort and oblcure, two Babylonith rabbis, Rabbina and Afe, collected all the interpretations, difputes, and additions, that had been made until their time upon the Mifnia, and formed the book called the Babylonif Talmud or Gemara; which is preferable to the Jerufalem Talmud, compofed fome years before by Rabbi Jochanan of Jerufalem. The Mifnia is the text of the Talmud ; of which we have a good edition in Hebrew and Latin by Surenhufius, with notes, in 3 vols folio. It were to be wilhed the fame had teen done to the: Gemara.

The Kingdom of fudan was of fmall extent compared with that of the kingdom of Ifrael ; confining only of two tribes, Benjamin and Judah: its ealt boundary, the Jordan; the Mediterrantan its weft, in commen "ith the Danites, if we except fome places recovered by the Philifines, and others taken by the kings of Ifrael ; on the fouth, its limits feem to have been co: tracted under Hadad of the royal progeny of Edom, (1 Kings si. . 4.)

Trube of JUDAB, one of the 12 divifions of Paleftine by tribes (Joh. xv.), having ldumea on the fouth, from the extremity of the Lacus Afphaltites, alfo the Wildernefs of $\mathcal{Z i n}$, Cadeflarnca, and the brook or iver of Egypt; on the eaft, the faid lake; on the welt the Medittrianean; and on the north, the mouth of the fail lake; where it receives the Jordan, Bethfermes, Thimra, quite to Ekron on the fea.

JU'DAICM, the religious doctrines and rites of the Je:s. Judaifm was but a temporary difpenfation, and
was to give way, at leaft the ceremonial part of it, at the coming of the Meflias. For a complete fyltem of Judaifm, fee the books of Mofes. Judaifm was anciently divided into feveral fects; the principal whereof were the Plarifees, Sadducces, and Effenians.

At prefent there are two fects among the Jews, viz. the Caraites, who admit of no rule of religion but the law written by Mofes; and the Rabbinilts, who add to the law the traditions of the Talmud.

JUDAS Maccabeus, a celcbrated general of the Jews, renowned for his many vikories over his enemies, at laft Main in battle, 261 B. C. See (Hiflory of the) Jews, $\mathrm{N}^{\circ}{ }^{1} 3$.

## Yodas-Tree. See Cercis, Botany Index.

JUDE, ST, brother of St James the younger, and fon of Jofeph (Mat. siii. 55.). He preached in Mefopotamia, Arabia, Syria, Idumea; and died in Berytus for the confefition of Clrift. He wrote that epillle which goes under his name, and after the death of molt of the apofles. He was cruelly put to death for reproving the fuperftition of the Magi.

Judr, or the Gencral Epille of Yude, a canonical book of the New Teftament, written againt the heretics, who, by their diforderly lives and impius doc. trines, corrupted the faith and good morals of the Chriftians. St Jude draws them in lively colours, as men given up to their paffions, full of vanity, conducting themfelves by worldly wifdom, and not by the fpirit of God.

JUDEA, in Ancient Geography, taken largely, either denotes all Palcftine, or the greater part of it; and thus it is gencrally taken in the Roman hiftory: Ptolemy, Rutilinus, Jerome, Origen, and Eufebius, take it for the whole of Paleftine. Here we confider it as the third part of it on this fide the Jordan, and that the fouthern part is diftinct frem Samaria and Galilce ; under which notion it is often talien, not only in Jofephus, but alfo in the New Teftament. It contained four tribes; judah, Benjamin, Dan, and Simeon, together with Philitia and Idumea; fo as to be comprifed between Samaria on the north, Arabia Petrea on the fouth, and to be bounded by the Mediterranean on the weft, and by the lake Afphaltites, with part of Jordan, on the ealt. Jufephus divides it into it toparchies; Pliny into 10 ; by which it has a greater extent than that juft mentioned. Sec Palestine.

JUDENBURG, a handfome and confiderable torn of Germany, in the circle of Aufria, and capital of Upper Syria, with a handfome caftle; the public buildings with the fquare are very magnificent. It is feated on the river Meur. E. Long. 15. 20. N. Lat. 47. 20.

JUDEX, Matrhew, one of the principal writers of the Centuries of Magdeburg, was born at 'Tipplefwolde in Mifnia, in 1528 . He taught theology with great reputation; but met with many difquiets in the exercife of his miniltry from party-feuds. He wrote feveral works, and died in 1564 .

JUDGE, a chief magiftrate of the law, appointed to hear caufes, to explain the laws, and to pafs fentencs.

Junges, in Jewifs antiquity, certain fupreme magiftrates who governed the Ifraelites from the time of Jofnua till the reign of Saul. Thefe judges refembled the Athenian archons or Roman dictators. The dirg-

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dges, nity of judge was for life, but not always in uninterrupted fucceifion. God limfelf, by fome exprefs de claration of his will, regularly appointed the judges: But the lifaelites did not always wait for his appointn:ent, but fometimes chofe themfelves a judge in times of drager. The power of the judges extended to af. fairs of peace and war. They were protectors of the laws, deticaders of religion, avengers of all crimes; but they could make no laws, nor impole any new burdens upon the people. They lived without pomp or retinue, unlefs their own fortunes enabled them to do it; for the revenues of their office confifted in voluntary prefents from the people. They continued from the death of Jothua till the beginning of the reign of Saul, bcing a lpace of about 339 years.

Judges, for ordinary affairs, civil and religious, were appointed by Mofes in every city to terminate differences; in affairs of greater confequence, the differences were teferred to the priefts of Aaron's family, and the judge of the people or prince at that time eitablifhed. Mofes likewife fet up two courts in all the cities, one confifting of priefts and Levites, to determine points concerning the law and religion; the other confinting of heads of families, to decide in civil matters.

Book of yudges, a canonical book of the Old Teftament, fo called from its relating the flate of the Ifraelites under the adminiflation of many illultrious peifons who were called judzes, from being both the civil and military governors of the people, and who were raifed up by God upon feecial occalions, after the death of Johnua till the time of their making a king. In the time of this peculiar polity, there were feveral remarkable occurrences, which are recorded in this book. It acçuaints us with the grofs impiety of a reew generation which fprung up after the death of Johnua; and gives us a fhort view of the difpenfations of heaven towards this people, fometimes relieving and delivering them, and at others f-verely chaflifing them by the hands of their enemies.

Select Fudges (Yudices felcati), in Antiquity, were perfons fummoned by the prietor to give their verdict in criminal matters in the Roman courts, as juries do in ours. No perfon could be reçularly admitted into this number till he was 25 years of age. The Sortinio yudicum, or impannelling the jury, was the office of the Judex Quefionis, and was performed after both parties were come inco court, for each had a right to rcject or challenge whom they pleafed, others being fubflituted in their room. The number of the judices folecti waried. according to the nature of the charge. When the proper number appeared, they were fworn, wok their places in the fitfollin, and heard the trial.
JUDGEMENT, among logicians, a faculty or rather act of the human foul, whereby it compares its ideas, and perceives their agreement or difagrecment. See Metaphysics; and Logic, Part II.

Judghafet, in Lave, is the fentence pronounced by the court upon the matter contained in the record. Judgements are of four forts. Firft, where the facts are confelied by the parties, and the law determined by the court ; as in cale of judgement upon demurrer: Secondly, where the law is admitted by the parties, and the f.eीs difputed; as in the cafe of judement on werdil, thirilly, where both the faot and the law arifing Vol. XI. Part I.

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thereon are admitted by the defendant; which is the Jutgement. cafe of judgements by confeflion or defauls: ur, lattly, where the plaintiff is convinced that enther fact, or law, or both, are infufficient to fuppor: kis action, and therefore abandons or withdraws his profecution; wlirh is the cafe in judgements upon a nonfuit or retraxie.

The judgement, though pronuunced or asarded by the judges, is not their determination or fentence, but the determination and fentence of the law. It is the concluiten that naturally and regularly follows from the premifies of law and fact, which fands thus: Againfl him who hath rode over my corn, I may recover damages by law: but i hath rode over my corn; therefore I fhall recover damages againft $A$. If the major propolition be denied, this is a demurrer in law: if the minor, it is then an ilue of fact: but if both be confeffed or determined to be right, the conclufios or judgement of the court cannot but follow. Which judgement or conclufion depends not therefore on the arbitrary caprice of the judge, but on the fettled and invariable prirciples of jultice. . The judgement, in fhort, is the remedy prefcribed by law for the redrefs of injuries; and the fuit or action is the vehicle or means of adminiftering it. What that remedy may be, is indeed the refilt of deliberation and fludy to point out; and therefore the Ayle of the judgement is, not that it is decreed or refolved by the court, for then the judgement might appear to be their oun ; but, " it is confidered," confidcraium eft per curiam, that the plaintiff do recover his damages, his debt, his poffelfion, and the like: which implies that the judgement is none of their own; but the act of law, pronounced and declared by the court, after due deliberation and inquiry. See Elack/f. Comment. iii. 396.

JUdGement, in criminal cafes, is the next dage of profecution, after trial and conviction are paf, in fuch crimes and mifdemeanors as are either too high or too low to be included within the bencfit of clergy. For when, upon a capital charge, the juki have brought in their r.ERDICT guilty in the prefence of the prifoner; be is either immediatcly, or at a convenient time foon after, afted by the court, it he lias any thing so offer why judgement thould not be awarded againft him? And in cafe the defendant be found guilty of a mifdemeanor (the trial of which nay, and does ufually, happen in this ablence, after he has once appeared), a capias is awarded and iflued, to bringr him in to receive his judement; and if he abfonds, he may be profecuted even to outlawry. But whenever lie appears in perfon, upon either a capital or inferior conviction, he may at this period, as well as at his arraignment, offer any exceptions to the indictment, in arreir or flay of judgement: as for want of futincient certaint? in fetting forth either the perfon, the tiase, the place, or the offence. And if the objections be valid, the whole proceedings thall be fet afde; but the party may be indicied again. And we may take notice, I. That none of the ftatutes of joofaits, for amendment of er. rors, extend to indictments or proceedings in crimunal cafes; and therefore a defective indietment is not aider? by a verdict, as defective pleadings in civil cafes are. 2. That, in favour of life, great flrichnefs has at all R1ach/ times been obferved, in cvery oint of an indienment. Commone. Sir Matllow Ha!e indeed complains, " that this thiet-

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Judgemert. nefs is grorin to be a blemifh and inconvenience in the lave, and tie adminitration thereof: for that more offenders ecape by the over ealy ear given to exceptions in indietments, than by their own imnocence; and many times grofs murdes, burglaries, robberies, and other heinous and crying offences, remain unpunithed by thefe unfecmly niceties: to the reproach of the law, to the thame of the government, to the encouracement of villany, and to the difhonour of God." And yet, notwithlanding this laudable zeal, :10 man was more tender of life than this truly excellene judge.

A pardon alfo may be pieaded in arreit of judgeinent: and it has the fame advantage when pleaded here as when pleaded upom Arraigniment; viz. the fiving the attinnder, and, of courfe, the corrupHos of blood: which nothing can reflore but parliament, when a pardon is not pleaded till after fentence. And certainly, upen all accounts, when a man hath obtained a pardon, he is in the right to plead it as foon as poffib'e. See Pardon:-

Panging the benefit of clergy may alfo be ranked among the motions in arref of julgement. See Benefit of C CEBGT.
If all thefe refources fail, the court muf pronounce that judgenent which the lavy hath annexcd to the crime. Of thefe fome are capital, which extend to the life of the offender, and confif generally in being hanged by the neck till dead; thouth in very atrocious crimes other circumflances of terror, pain, or difgrice, are fuperadded: $\mathrm{a}^{\mathrm{a}}$, in treafons of all kinds, being deawn or dragged to the place of execution; in high treafon affecting the king's perfon or goverument, embowelling alive, beheading, and quartering; and in murder, a public difection. And in cale of any ireafon committed by a female, the judgement is, to be burned alive. But the humanity of the Englifh nation has authorized, by a tacit confent, an almolt general mitigation of fuch parts of thefe judgenents as favour of torture or cruelty: a liedge or hurdle being ufually allowed to fuch traitors as are condemned to be drawn ; and there being very few inftances (and thofe accidental or by negligence) of any perfon's being embowelled or bi:med, till previoutly deprived of fenfation by flrangling. Some punillments confift in exile or banihment, by abjuratien of the realm, or tranflortation beyond the feas: others, in lofs of liberty, by perpetual or temporary imprifonment. Some extead to confifcation, by forfeiture of lands, or move:hles, or both, or of the profits of lands for life: others induce a difability of holding offices or employments, leing heirc, executors, and the like. Some, though rarely, occafion a mutilation or difmembeing, by cutting off the land or ears: others fix a lafting figma on the offender, by flitting the noftri's or branding in the band or face. Some are merely pecuniary, by flaled or difcretionary fines: and, lafly, there are others that confift principally in their ignominy, though mont of them are mixed with fome degree of corporeal 1 ain ; and thefe are intliked chiefly for fuch crimes as either arife from indigence, or render even opuItnice difgraceful. Such as whipping, hard labour in the lenufe of correction, the pillory, the ftocke, and the ducking-flool.

Difgufing as this catalogue may fecm, it will afford
pleafure to a Britinh reader, and do honour to the Bri- Judser tilh laws, to compare it with that thocking apparatus of death and torment to be met with in the criminal codes of almoft every other nation in Europe. And it is moreover one of the gloties of our law, that the nature, though not alway; the quantity or degree, of punithment is afcertained for every offence; and thai it is aot left in the breatt of any judge, nor even of a jury, to alter that judgement which the law has beforchand ordained for every fubject alike, withut refpect of perfons. For if judyements were to be the private opinions of the judse, men wotild then be haves to their magiflrates; anil would live in fociety, without knowing exactly the conditions and obligations which it lays them under. And, beftec, as this prevents opprefirn on the one hand; fo, on the other, it ttides all hopes of impunity or mitisation, with which an offender might thater himbelf if his punilhmerit depended on the humour and diferetion of the court. Whereas, where an ellablithed penalty is anmexed to crimes, the criminal may read their certain confequence in that law, which ought to be the unvaricd rule, as it is the infexible judge, of his actions.

Yudgiment of God. See Yudiciea Diz.
IUDICATURE, the quality or profelion of thofe who adminilfer ju!tice.

Indicature is alfo ufed to fignify the extent of the jurifliction of the judge, and the court wherein he fits to render jufice.

JUDICIA cemturtirafid, in Roman antiquity, were trials before the Cemtumivit, to whom the prater committed the decifion of certain matlers of inferion nature, like our juftices of peace at the quarter feffions. During the judicia centumiviralia, a fear was fluck up in the forum, to fignify that the court was fitting.

JUDICIURI CALUMNa, was an action brought againft the plaintiff for falle accufation. The punilhment, upon conviction, was inufio fromis, or branding in the forehead. See Inussio.

Yudicium Dit, J̌uḑement of God, was a terin anciently applied to all extraordinary trials of fecret crimes; as thofe by arms, and fingle combat ; and the ordeals, or thofe by fire, or red-hot ploughfiares, by plunging the arm in boiling water, or the whole body in cold water; in hopes God would work a miracle, rather than fuffer truth and innocence to perifh. Si fuper defendere non poffit, judicio Dci fcil. aqua vel ferro, fieret de co jufitia.-Thefe cultoms were a long time kept up even among Chriftians; and they are filli in ufe in fome nations. See Battel, Ordfal, \&ec.-Trials of this fort were ufuatly held in churches in prefence of the bilhops, priefts, and fecular judges; after thrce days falting, confeffion, comnuunion, and many adjurations and ceremonies defcribed at large by Du Cange.
Yudiciun Pariam denotes a trial by a man's equals, i. e. of peers by peers, and of cominoners by commons. In magna charta it is more than once infifted on as the principal buluark of our liberties, but efpecially by chap. 29. that no freeman thall be hurt in either his perfon or property, mifz per legale judicium parium fuorum vel per legem terre. And this was even efteemed in all countries a privilcge of the higheft and moft bereficial nature.

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dicium fedicius Fali, was an a dion which lay againft the judges for corruption or unijuft proceedings.

Judicius Pravaricationis, was an action brousht againlt the profector, afrer the crimimal was acquitted, for fuppreling the evidence of, or extcauating his guilt, rather than urging it home, and bringing it to light.

JUDOIGNE, a town of the Auftian Netherlands, in Brabant. Near this town the duke of Narlborough gained that fignal victory over the Irench in J 706 , called the bathle of kamillies. It is feated on the river Gete, 13 milues fouth-eal of Louvain; and 16 north of Namur.

IVE.ACH, the name of two baronies of Ireland, in the county of Down, and provice of Ulfter. 'They are ditlinguithed into Upper anal Lower Iveach, and the former is by much the largett barony in that county. The nume of Teeach, or $\mathrm{H}_{y}$ Veach, is faid to be taken from Achaius, in Irih called Eachach, grand-father to King Coall,pa; as much as to fay " the territory of Eachach;" for hy, in the Irih language, is a common adjeftive, denoting not only the heads and founders of familics, but alfo the territories polfelfed by them. Iveach (including boti) baronies) was otherwife called Magermis's country, and in Queen Elizabeth's time was governed by Sir Hugh Migennis, elteemed to have been one of the mo't polite of all the natives in thofe parts. Through part of this barony runs a chain of mountains coniderably high, known by the name of Iveach monntains.

IUERNUS, in Ancier! Geography, a town in the fouth-wet of lreland. N’: Durikeram, (Camden); called Danck:yne by the natives, fituated on the river I.Iaire, in the prosince of Nunter.
luernis, or Iernus (Ptolemy), a river in the fouthweit of lreland. Now called the Maire, or Kenmare, running from ealt to weft, in the province of Muntter.

IVES, Sr, a fea-port town of Cornwall in Eng!and, feated on a bay of the fame name; which is chielly frequented by fithermen, for the taking of pilchards. By this trade, and that of Corni.h ीlates, it has thriven greatly, and 20 or 30 fail of ihips now belong to it. It is a corporation, governed by a mayor, recorder, \& c. and it fends two members to parliament. Here is a handfome facious church, and a graminar-ichool, which was founded by Charles $f$.

Ives, $S!$, is a!fo the name of a town in Huntingdon. nire, $\sigma_{4}$ miles from London. It has a tine Itone bridge over the Oufe, had in the ninth century a mint, and was noted for its medicinal waters. Great part of it was burnt down fome years ago, but it was rebuilt. Here is a very good market on Noaday for fatted cattle brought from the noth; and there are two fairs in the year. Here Oliver Cromwell rented a farm befure he was chofen a burgefs for Cambridge.

JUGERUiNI, in Roman antiquity, a fquare of 120 Roman feet; its proportion to the Eaglih acre being as 10.000 to 36097.

JUGGLERS, a kind of people whofe profeltion has not been often deemed either refpectable or ufeful. Yet Profeflor Beckmann defends them, and pleads ably the caufe of the prectifers of legerdemain, in the third volume of his Hiftory of Inventions, iucluding rope-lancers, and fuch as exhibit feats of uncommon Arength. He places all thefe under the general deno-
mination of jugglers; and taking it for granted that Jugnlars crery ufeful employment is full, he contends that there would not be room on the earth for all its prelent inhabitants, did not fome of them practifc the ait of juggling.
'Thefe arts, he obferves, are not unprofitable, for they afford a comfortable fubfiftence to thole sho practife them, which they ufually fpend upon the fout, and this he confiders as a good reafon why bleir liay in a place ought to he encouraged. He is alfo of opinion that if the arts of juggling ferved no other ead than to amufe the moft izutoralit of our citizens, it is proper that they foould be encouraged, for the fake of thofe who cannot enjoy the more expenfive deceptions of an opera. 'They convey inttruction in the mott acceptable manter, and ferve as an antifote to fuperitition. We fcarcely think, however, that it is innocent to entice the labouring poor, by ufelefs deceptions, to part with their hard-earned pittance to ille vagabonds, wiofe life camnot be comfortable, which is paffed amidit fcenes of the molf grovelling difipation.

Juggling is certainly of very great antiquity. The deception of breathing out tlames was practifed by fome of the nlaves in Sicily about 150 years before the commencement of the Chrifian sera. It is, however, pratiled in modern times with nuch greater dexterity The ancients made ufe of naphtha, a liquid mineral oil, which kindles when it only approaches a tiame. According to Plutarch, Alexander the Great iras aftonifhed and delighted with the fecret eftects of map? tha, which were exhibited to him at Ecbatana. Wo:1der has been excited in modern times by peroms who could wall: over burning coals or red-hot iso:n, whici! is eafily done by rendering the thin of the feet callous and infentible, fo that the nerves under it are fecured from injury. We are told by Beckmann, thet tho Hirpi, who dwelt near Rome, jumped through buruing coals; that women were accullomed to walk ower burning coals at Caftabala, near the temple dedicated to Diana; that the exbibition of balls and cups is often mentioned in the works of the ancients; and that the various feats of horfemanflip exbibited in our circules pafied, in the 1 3th century, from Egypt to the Byzantinc court, and thence over all Europe.
JUG LANS, the wALNUT, a genus of plants belonging to the polyandria ciafs; and in the natural me thod ranking uader the 5 oth order, Amintacece. Sec Botany Index.

JUGOR A, a confiderable province of Nufcory, depending on the government of Archangel. It has the title of a duchy; and is inhabited by a kind of Tartars, who are very favage, and much of the fame difpoition with the Samoiedcs.

JUGULAR, among anatomils, is applied to certain veins and glands of the neck. See ANatomy.

JUGULARES, in the Linnæan fyllem, is the name of an order or divilion of fih, the general character of which is, that the ventral fins are placed before the pectoral. See Ichthyology Index.

JUGUM, an humiliating mode of punihinent inflicted by the vietorious Romans upon their vanguilhed enemies. It was thus: They fet up two fpears, and l.tying a third acrofs, in the form of a gallows, they ordered thofe who had furrendered thamfelves to pafs uaticr this ignominious ereftion, without arms or belts. None
fuffered

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Jugurtha fuffered this difgrace of paffing fub jugo but fuch as had
In c. been obliged to furreider.
IUGURTHA, the illegitimate fon of Manaftabal the brother of Micipfa. Miciofa and Manaftabal were the fons of Mafinilla king of Numidia. Micipla, who had inherited his father's kingdom, educated his nephew with his two fons Adinerbal and Hiemplal ; but as he faw that the former was of an afpiring difpofition, he fent him with a body of troops to the aflithance of Scipio, who was belueging Numantia, hoping to lofe a youth whofe ambition feemed to threaten the tranq illity of his children. His hopes were frullrated; Jugutha ihowed himlelf brave and active, and he endeared himfelf to the Roman general. Micipfa appointed him fucceffor to his kingdom with his two fons; but the kindnefs of the father proved fatal to the children. Jugurtha deftroyed Hiempfal, and Atripped Adherbal of his polfelirons, and obliged him to tly to Rome or fafety. The Romans litened to the wellgrounded complaiuts of Adherbal; but lugurthd's gold prevailed among the lenators, and the fuppliant monarch, forfaken in bis diftrefs, perihed by the fnares of his enemy. Ceceilius Metellus was at laft fent againf Jugurtha; and his firmuefs and fuccefs foon reduced the crafty Numidian, obliging him to fly among his favare neighbours for fupport. Marius and Sylla fucceeded Metellus, and fought with equal fuccefs. Juguriha was at laft betrayed by his father-in-law Boc. chus, from whom he claimed alliftance; and be was delivered into the hands of Sylla 106 years before the Cirifian era. He was expofed to the view of the Roman people, and dragged in chains to adorn the triumph of Marius. He was afterwards put in a prifon, where he died fix days after of hinger.

IVICA, or Yvica, the name of an ifland in the Me-literranean. See Yvica.
IUICE, denotes the lap of regetables, or the liquors of arimals. Sce A.atomy, Blood, Plants, S.sp, \&c.

The juices of feveral plants are exprefied to obtain their effential falts, and for feveral medicinal purpofes, with intention either to be ufed without further preparation, or to be made into fyrups and extracts. 'The general method of extracting thele juices is, by pounding the plant in a marble mortar, and the: a by putting it into a prefs. 'Thus is obtained a muddy and green liquor, which generally requires to be clarified, as we flall foon obferve. The juices of all plants are not extracted with equal eafe. Some plants, even when frehh, contain fo little juice, that water muft be added while they are pounded, otherwife fcarcely any juice would be obtained by expreffion. Other plants which contzin a confiderable quartity of juice, furnith by expreffion but a fmall quantity of it, becaufe they contain alfo much mucilage, which renders the juice fo vifid that it cannot flow. Water muft alfo be added to thefe plants to obtain their juice. The juices thus obtained from regetahles loy a mechanical method, are not, properly fpeaking, one of their principles, but rather a collection of a!1 the proximate principles of plants which are foluble in water; fuch as the fiponaceous extractive matter, the mucilage, the odoriferous principle, all the falline and faccharine fubilanices; all which are diffolved in the water of the vegetation of

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the plants. Befides all thefe matters, the jaice contains fome part of the refinous fubtance, and the green colouring matter, which in almolt all vegetables is of a relinous nature. Thefe two latter fubltances, not being folnble in water, are only interpofed between the parts of the other priuciples which are difolved in the juice, and confeq̧uently diffurb its tranfparency. They neverthelefs adhere together in a certain degree, and fo ftrongly in moft juices, that they cannot be feparated by filtration alone. When therefore thefe juices are to be clarified, fume previous preparations mult be ufed by which the ñltration may be facilitated. Juices which are acid, and not very mucilaginous, are fpontaneoully clarified by relt and gentle heat. The juices of mof antifcorbutic plants abounding in faline volatile principles, may be difpofed to filtration merely by immerfion in boiling water; and as they may be contained in clofe bottles, while they are thus heated in a water bath, their faline volatile part, in which their medicinal qualities cheefly confft, may thus be preferved. Fermentation is alfo an effectual method of clarifying juices which are fufceptible of it ; for all liquors which have fermented, clarify foontaneoully after fermentation. But this method is not ufed to clarify juices, becaufe many of them are fufceptible of only an imperfect fermentation, and becaufe the qualities of moft of them are injured by that procefs. The methad of clarification moft generally uled, and indifpenfably necelfary for thofe juices which contain much mucilage, is boiling with the white of an egg. This matter, which has the property of coagulating in boiling water, and of uniting with niucilage, doe: accordingly, when added to the juice of plants, unite with and coagulate their mucilage, and feparates it from the juice in form of fam, torether with the greatelt part of the retinous and earthy matters which difturb its tranfparency. And as any of thefe refinous matters which may remain in the liquor, after this boiling with the whites of eggs, are no longer retained by the murilage, they may eafily be feparated by filtration.

The juices, efpecially before they arc clariñed, contain almolt all the fame principles as the plant itfell; becaufc in the pperation by which they are extracted, no decompofition happens, but every thing remains, as to its nature, in the fame fate as in the plant. The principles contained in the juice are only feparated from the grofier oily, earthy, and relinous parts, which compofe the folid matter that remains under the prefs. Thefe juices, when well prepared, have therefore the fame medicinal qualities as the plants from which they are obtained. They mult evidently differ from each other as to the nature and proportions of the principles with which they are impregnated, as much as the plants from which they are extracted differ from each other in thofe refuects.

Moll vegetable juices coagulate when they are ex: pofed to the air, whether they are drawn out of the plant by wounds, or naturally run out ; though what is called naturally running out, is generally the effect of a wound in the plant, from a fort of canker, or fome other internal caufe. Different parts of the fame plant yield different juices. The fame veins in their courfe through the different parts of the plant yield juices of

Juice. a different appearance. Thus the juice in the root of the cow-parfinep is of a brinftone colour; but in the ftalk it is white.

Among thofe juices of vegetables which are clammy and readily coagulate, there are fome which readily break with a whey. The great wild lettuce, with the fmell of opium, yields the greateft plenty of milky juice of any known Britifh plant. When the fialk is wounded with a knife, the juice flows out readily like a thick cream, and is white and ropy; bu: if thefe wounds are made at the top of the flalks, the juice that flows out of them is dathed with a purple tinge, as if cream had been fprinkled over with a few drops of red wine. Some little time after letting this out, it becomes much more purple, awd thickens; and finally, the thicker part of it feparates, and the thin whey fiwims at top. The whey or thin part of this feparated matter is eafily preffed out from the curd by fqueezing between the fingers, and the curd will then remain white; and on wathing with water it becomes like rags. The purple whey (for in this is contained all the colour) foon dries into a purple cake, and may be crumbled between the fingers into a powder of the fame colour. The white curd being dried and kept for fome time, becomes hard and brittle. It breaks with a thining furface like refin, and is inflammable; taking fire at a candle, and burning all away with a ftrong tlame. The fame thick part being held over a gentle heat, will draw out into tough long threads, melting like wax. The purple e cike made from the whey is quite dificent from this; and when held to a candle fcarce tlames at all, but burns to a black coal. The whole virtue of the plant feems alfo to contift in this thin part of its jaice: fur the coagulum or curd, though looking like was or refin, has wo talle at all; whereas the purple cake made from the ferum is extremely bitter, and of a iate fo newhat refembling that of opium.

Of the fame kind with the wild lettuce are the throatwort, fpurge, and many other plants. Thefe are all replete with a milky juice which leparates into curds and whey like that alrealy deferibed. Bi.t this, though a common law of natue, is not univerfal; for there are many plants which yield the like milky juices without any feparation enfuing upon their extravafation. The white juice of the fonchus never feparates, but dries into an uniform cake: the common red wild poppy bleeds freely with a milky juice; and the heads or capfules of feed bleed not lefs freely than the relt of the plant, even after the Hower is fallen. This juice, on being received into a thell or other fmall veffel, foo: changes its white to a deep yellow colour, and dries into a cake which feems refinous and oily, wat no whey feparates from it. The tragupogon, or goat's-beard, when wounded, bleeds freely a milky juice; it is at firft white, but becomes immediately yellow, and then more and more red, till at length it if; wholly of a dulky red. It never feparates, but dries together into one cake; and is oily and refinous, but of ain infipid tafte. The great bindweed alfu bleeds freely a wiinte juice; the flowers, as well as the ftalks and leaves, affording this liquor. It is of a tharp talle; and as many of the purcing plants are of this clafs, it would be wooth trying whether this milk is not purgative.

Thefe juices, as well as the gencrality of nothers which bleed from plants, are winte like mailk; but there are fome of other colours. Tlle juice of ${ }^{1} 10$ great celandine is of a fine yellow culour, it flows from the plant of the thicknefs of crean, and foon dries into a hard cake, without any whey feparating from it. Another yellow juice i, yielded be the feed. veffels of the yellow centaury in the montis of Juiy, when the feeds are full grown. This is very clammy; it foon hardens altogether into a cake without any whey feparating from it. It llicks to the fincers like birdlime, is of the colour of pale amber, and will never become harder than foft wax if dricd in the fhade; but if laid in the fun, it immediately becomes hard like refin. Thefe cakes burn like was, and emit a very pleafant fmell. The great angelica allo yields a yellowih juice on being wounded; and this will not harden at all, but if kept feveral years will ftill be fuft and clammy, drawing out into threads or half melted refin.

A nother kind of juices very different from all thefe, are thofe of a gummy nature. Some of thefe remain liquid a long time, and are not to be dricd without the affiftance of heat; the others very quickly hardea of themfelves, and are not intiammable. The gum of the juice of rhubarb leaves foon hardens; and is afterwards foluble in common water, and fparkles when put into the flame of a candie. The clulters of the common honeyfuckle are full of a liquid gum. This they frequently throw out, and it Ealls upon the leares, where it retains its own form. The led hairs of the ros fulis are all terminated by large bladders of a thin watery lluid. This is alfo a liquid gum; it thicks to the fingers, draws out into lung threads, and flands the force of the fun all day. In the centre of each of thefe dew-drops there is a fmall red bladder, which Itands immediately on the fummit of the red hair, and contains a furple juice which may be fqueezed out of it. The pinguicula, or butterwert, has alfo a gumny matter on its leaves in much greater quantity than the ros fali:.

Some plants yield juices which are manifefly of an oily nature. Thefe, when rubbed, are not at all of a clammy nature, but make the fingers glib and dlippery, and do not all harden on being expoted to the air. If the ftalk of elecampanc be wounded, there Hows out an oily juice fwimming upon a watcry one. The ftalks of the hemlock alfo afford a fimilar oily liquor fwimming upon the other; and in like manner the white mullein, the berries of ivy, the bay, janiner, dog-berry tree, and the fruit of the olive, when wounded, fhov their oil floating on the watery juice. Some of thefe oily juiccs, however, harden into a kind of refin. Our ivy yields fuch a juice very abundantly; and the juice of the fraall purple-berried juniper is of the fame kind, being hard and fat, and not very gummy. If the bark of the comman ivy is wourded in Narch, there will ooze out a tough and greafy inater of a yellowilh colour, which, taken up betwec:1 the fingers, feels nut at all gumny or flicking, but melts in landling into a fort of oil, which in procefs of time "hardens and crufls upon the wounds, and looks like brown fugar. It burns with a lalling flame, and freells very ftrong. The tops of the wild lettuce, and

## J U L [ 30 <br> the 1. ves growing near the tope, if examined with a

magnifing glafs, flow a great number of fmall biadders if drops of an oily juice of a brownith colour, hardening iato a kind of refin ; they are eafly wiped oii when of any fire, and are truly an oily juice a litele hardened. It is prolvable al!o, that the fine blue Thuer or powder, called the bloom, a;on the furface of our cormon plums, is no other than fuch an oily juise coubating from their pores in fmall particles, and hardening inta a fort of refin.
juJUBES, in the Miateria Medica, the name of a frait of the pulpy kind, produced on a tree which Linmiens makes a pecics of rhamnus. Sie Rhanwos.

The jujube have been made a general iagredient in pecoral decuations; but they are now feldom ufed on thefe occalions, and are fearce at all heard of in preferi tion, or to be met with in our thops.
JUL, or JoL, a Gotl:ic word fignifying a " fumptuous treat;" and particularly applied to a reliyious fellival firf among the beathens and afterwards among Chrintians. By the latter it was given to Chpistans; which is fliil known under the name of Iu , or Yool, in Denmark, Norway, Iceland, and Streden; nay, even in the noth of Britain, and whence the month of Januarius by the Saxons was ftyled Giuli, i. e. "the Feftival." As this fealt had originally teen dedicated by our heathen anceltors to the fun, their fapreme deity; fo the Chrifiians, for the purpofe of engaging the minds of their Ethnic (gentile) brethren, ordered it fhould be celebrated in memory of the lirth of Chint: and thus it has been through ages a fealt of joy and entertainment. We are indebted to Procopius for the firft account of this fealt.

JULEP, in Pharmacy, a medicine compofed of fome proper liquor and a fyrup or fugar, of extemposaneous preparation, without decoction. See Materia Medica Index.

JULIAN, the famous Roman emperor, fyled the Apofate, becaufe he profefied the Clriftian religion before he afcended the throne, but afterwards openly embraced Paganifm, and endeavoured to abolilh Chriftianity. He made no uie of violence, however, for this purpofe; for he knew that violent meafures had always rendered it more flourifhing: he therefore behaved with a polite mildnefs to the Chritians; recalled all who had been basifhed on account of religion under the rcign of Conftantins; and andertook to pervert thems by his careffes, and by temporal advantages and mortifications covered over by artful pretences: but he forbade Chrititians to plead before courts of jultice, or to cujoy any public employments. He even prohilited their teaching polite literature; well know. ing the great advantages they drew from profane anthors in their attacks upon Paganifm and irreligion. Though he on all occafions thowed a fovereign contempt for the Chriftians, whom he always called Galileans, yet he was fenfible of the advantage they obtained by their virtue and the purity of their manners: and therefore incelfantly propofed their example to the Pagan priefts. At laft, however, when he found that all other methods failed, he gave public employments to the moft cruel enemics of the Chritians, when the cities in moft of the provinces were filled with tumults and feditions, and many of them were put to death:
'1hnuzh it has been pieaded by Julian's apolozits, thext the Lhaviour of lae Chritions furnille a latiocien: petence for moft of his proceedings peainf them, and the animofities anoug themfelies fumithed him with the means ; that they were continually prone to fedition, ano made a merit of infuling the public worlhip; and, finally, that they re ce no icru! !e of cicclaring, that want of numbers al. ne preverited the from cngaginy in an open rebellion, If busaas mantion, that Julian attemited to prove the tallchood of our Lard's prediction with refpect to the temple of Jeruatem; and refolved to have that ednce rebuilt by the Jews, about $3=0$ years after its deffustion by '「itns: but all their endeavours ferved only the more perfectly to verify what had teen foretold by .tefus Chriit; for the Jews, who had afemblerl from all parts to lerufatem, digging the foundations, Han es of fire burit forth and confumed the workmen *. Howewcr, the Jews, who* See Fowere obftinately bent on accomplifhing that work, wfulon. made leveral attempts; tut it is faid, that all who endeavoured to lay the foundation perithed by thele Hames, which at latt obliged them entirely to abandon the work. Julian being mortally wounded in a battle with the Perlians, it is faid, that he then catched in his hand fome of the blood which dowed from his wound; and throwing it towards heaveln, cried, "Thou Galilean haft conquered." But notwithitanding this popular report, 'Theodoret relates, that Julian difcovered a different difolition; and emploved his laft moments in converting with Maximus the philofopher on the dignity of the foul. He died the following night, aged 3 2. For a particular account of his reign and exploits, fee (Hifory of ) Constantinople, $\mathrm{N}^{\text {º }} 7$. $33-65$.

No prince was ever more differently reprefented by different authors; on which account it is difficult to form a true judgement of his real character. It mult, however, be acknowledged, that he was learned, liberal, temperate, brave, vigilant, and a lover of juftice : but, on the other hand, he had apoltatifed to Paganifm; was an enemy to the Cliriftian religion; and was, in fact, a perfecutor: though not of the moff fangumary clafs. We have feveral of his difcourfes or orations; fome of his letters; a treatife intitled Mifopogon, which is a fatire on the inhabitants of Antioch; and fome other pieces, all written in an elegant fyle. They were publifhed in Greck and Latin by Father Petan in 1630 in quarto; and of which Spanheimins gave a fine edition in folio in 1696 . His moft famous work was that compoled againtt the Chritians, of which there are fome fragments in Cyril's refutation of it.

FULIAN Period, in Chronology, a period fo called, as being adapted to the Julian year.

It is made to commence before the creation of the world. Its principal advantage lies here, that the fame years of the cycles of the fun, moon, and indiction, of which three cycles it was made to confift by Jofeph Scaliger in 1580 , belonging to any year of this period, will never fall together again till after the expiration of 7980 years. There is taken for the firf year of this period that which hath the firl of the cycle of the fun, the firf of the cycle of the moon, and the firtt of the indiction cycle, and fo reckoning on.

The firf year of the Chriftian cra is always, in our fyflems

Jution fytems of cirronology, the $47^{1}$ th of the Julian period.

To find what year of the Julian peniod ary given year of Chrint anfisers to: 'lo the given year of Chitt add 4713 , becaufe fo many years of tie Julian period were expired A. D. 1; and the fum gives the year of the Julizat period fought.

On ife contrary, having the year of ihe Julian peried given, to fid what year of Chrift anfwers thecen: Fiom the year afthe Julith period given Subtract $47^{13} 3$, and the remainder will be the sear louglt.

Jutifan, St, a har! nur on the fatth of Patagoria, in Sunth America, where bips ufually touch that are bound to the Scuih feas. S. L.7t. 48.15.

JULIERS, a duchy in the circle of Weftphalia, in Germany, leated bet"een ti e siver alaafe and Rhine, and toanded by Prufien Gael?er!and on the north, by the electorate of Triers an the Coati, by the electorae of Cologne on the eatt, ard by the Netherlands on lie wafl. It is about 60 mics fong, and 30 broad; and is a rery plentiful country, aboundiag in catile, corn, and line mealosse, ard is well fupplied rith wend; but it is nutt remarkable fur a fine Lrec! of horles, and woad for dyeing, which is gathered here in abundance. The chief towns are Juliers, Aix-leChapelle, Duren, Mur:ीer-Eifel, ỉedtur, W'chinburgh, and Lafieren. It is fubject to the cheo or Palatine, with the confent of the Linge of Prullia and Pcland.

Juninfs, a city, capital of the duchy of Iuliers in Wreitphalia; fome think this ciny was founded by Julius Cuefar or Julia Agrippina; but this is nueh quef. tioned by othere, becanfe it is not mentioned kefore Amonimus's Itinerary and Theodolius's Takles. "The town is imall bui well sortified, ard neatly buili; the houfcs are of brick, and the ftreets broad and regular. The citadel is large and very flong, containing a pelace of the ancient dukes, and a \{pacious piazza. In the fuburbs there is a monafery of Carthufans, robly endowed by ?everal dukes of Juliers. The town is but pooriy inhabited, though they have a fine woollen manafactory in this country, and likewife another of linen. It was taken by Prince Maurice of Naffat in 1610 , and by the Spaniands in 1622 . It is feated on the river Roer, in E. Long. 6. 25. N. Lat. $50.55^{\circ}$

## JUH.IO romaso. See Romaso.

juludscesar. See Cemar.
Julies 11. Juilian de la Rozere, pope, remarkable for bis ratlike difoffion, and his ;olitical merociations: by the latter, he engaged the principal powers of Europe :o league with him againd the sepublic of Venice, ruiled the loague of Cambrey, figned in 1508 . The Verctians having purchafed peace by the celtuon of part Komania, Julius turacd his arms againft Louis XII. king of France, and appeared ia perfon armed cap-alee, at the ficge of Mirandola; which place he took by aifault in 1.51 I . But procceding to excommuniente L.ouis, the king wifely turned his own wenpons againtt him, liy calling a general council at Pifa: at which the poje refufing to appear, was declared to be fufpendcd from the holy fee; and Louis, in his turn, cicon:municated the pope, who died foon after in 1512 . He b:ilt the famous church of St Peter at Rome, and was a patron of the polite arts.

Julues Vicus, in Anciunt Geograpliz, a town of the juble :iNemetes in Gallia Belgica; fituasted beiticen the Tres Tabenne and Nosicmaceus. Now Germergheim, a town of the lower Palatinate, on the weft fide of the Rhinc. Junc. E. Long. 8.15 Ni. Iont. 49. 12.

Yrelus Pollux. Sie Pablux.
IULUS, a fon of A「camilis, !nn i) Lavinitum. Ia the fucceffion to the lingdom of ABba, Ineas Sa $\therefore$ inas, the fon of Eneas and Lavinia, was prefeared to l.im. He was, however, inade clief pricit.

Iurus, a gerus of infec?s of the crder aptiza. See Extovonociy Index.

JULY, the feventh month of the year; during Which the fun enters the fign Leo. Tlie word is derived from the Intin Jutius, the furmame of C. Cafar the dictator, who ras bom in it. Mark Antony firlt gave this month the name fouly, which before was called Quintilus, as locing the fith month of the year in the o!d Roman kalendar eflablithed by Romulus, which began is the month of Marcl. For the fane reafon, Augut was called Sextilis; and September, Octojer, N yiember, and December, Itill retain the name of their firil rank.

Qure fequitur, numero turba notata fino. Ovin. Faft.
On the r9th day of this menth the dog days are cominonly luppored to begin; when, acconding in Hippocrates and Pliny, the Sea boils, wine turis four, dogy go mad, the bile is increafed and itritaied, and all animals decline and languith.

Oferr Flowers. See Dinothes, Eotany Index.
jUAIIEGE, a town of Normandy in France, and in the territory of Caux, with a celebrated Benedictine abbey. It is feated on the river Sine, in E. Long. 0. 55. N. Lat. 49. 25

JUNCI LAPIDEI, the name given by old authors to a feccies of ceral, of the tubularia kind, and compofed of a corageries of fmail tubules. See Tubuiatia, Helmintholegy Index.

JUNCTURE, any joint or clofing of two bodies. See Jowr.

Juscture, in Oralury, is a part of compofition, parsicularly recommeaded by (Xuintiian, and denctes fuch an attention to the nature of the sorels, confonante, and fyllables, in the conncction of words, with regard to their fourd, as will render the yronunciation moft ealy and pleafant, and beft promote the harmony of the fentence. Thus the coatition of two venvels, occaforning a hollow and obfure found, ard likewile of fonse confonants, rendering it harfh and rough, fhould be avoided: nor fhould the fame fyllable be repeated at the Eeginning and cisd of word, becaule thee found becomes lierety harth and unpleafant. The following verfe in Virgil's Aneid is an example of juncture.

## Arma sirumque cam, Trojie qui prinus ab oris.

JUNCUS, the RUSHI, a gentis of plants belonging to the hexandria clafs; and in the natural method ranking under the $5^{\text {th }}$ order, Triperalidew. Sce Bотiny Index.

JUNE, the fixth month of the year, during which the fun enters the lign of Cancer. The word comes from

Inngerman-from the Latin Gunius, which fome derive à Yunonc. nis Ovid, in the 6th of his Fafi, makes the goddels fay, Jumus.

## Yunius à nofiro nomine roman habee.

Others rather derive it a juniorilus, this being for young people as the month of May was sur old ones.

Jurius ef jurenum; qui fuit antè fonum.
In this month is the fummer folftice.
JUNGERMANN1A, a genus of plants of the matur ] order of algx, and teloncing to the cryptogamia clafs. See Botany Index.

JUNGIA, a genus of plants belonging to the fyngenelia clafs. See Botaxy Irdex.

IUNIPERUS, the JUNiPER TREE; a genus of plants belonging to the monoccia clafs; and in the natural methed ranking under the 51 ft order, Coniferce. See Rotany Index.

JUNIUS, ADRIAN, one of the mofl learned men of the age in which he lived, was born in Hoorn in Holland in 15 ti. He travelled into all parts of Europe, and practiled phyfic with reputation in England, where, anuong other works, he compofed a Greek and Latin Lexicon, to which he added above 6500 words; an Epithalamium on the marriage of Queen Mary with King Philip of Spain ; and Animadverfa af de Coma Conamentarius, which is the meft applauded of all his works. He died in 1575.
4 Junius, Francis, profeffor of divinity at Levden, was born at Bourges in 1545 , of a noble family, and Itudied fome tine at Lyons. Bartholemew Ancau, uho was principal of the college in that city, gave him excellent inftructions with regard to the right method of lludying. He was remarkable for being proof againd all temptations to lewduefs; but a libertine fo far overpowered him by his fophilly, that he made him an atheift : however, he foon returned to his firit faith; and, averfe as he was to unlawful love, he had no averfion to matrimony, but was married no lefs than four times. He was employed in public affairs by Henry IV.; and at laft was invited to Leyden to be profeftor of divinity; which employment he difcharged with honour, till he was fratched away by the plague in 1602 . Du Pinfays, he was a learned and judicious critic. He wrote, in conjunction with Emmanuel Tremellius, a Latin verfon of the Hebrew text of the Bible. He alfo publilised Commentaries on a great part of the Holy Scriptures; and many other works, all in Latin.

Jexius, Francis, or Francis dir Yon, the fon of the preceding, was born at Heirielberg in 1589. He at firit defigned to devote himalelf to a military life; but after the truce concluded in 1609 , he applied himfelf entrely to fludy. He came to Instand in i620, and lived 30 years in the earl of Aruncel's family. He was greatly efteemed not only for his proound ertadion, but alfo for the purity of his nanners; and was fo paifromately fond of the fludy of the nothern languages, that, being informed there were fome villages in Fiefland where the ancient language of the Satous was prefersed, he went and lived two years in that country. He relurned to England in 1675 ; and after fpending a ycir t O tord, retired to W'indfor, in oicier to vilit Vollu*. at whef houfe he died in 1677 . The univer. fity of Oxford, to nibich he bequeathed his manuferipts,
erected a very handfome monument to his memory. He wrote, 1. De Pictura Vetcrum, which is admired is il the learned; the bett ecilion of it is that of Rotterdam in 1694. He fublithed the fame work at London in Englim. 2. An explication of the old Gothic manufoript, called the Sifier oze, becaule the four Goppeli are there written in tilver Gothic lettera; this was pub). liked with notes by Thonas Marelchal or Mavihal. 3. A large commentagy on the Harmony of the four Guepels by Tatian, which is till in marufcript. i. d Cruflary in fire languages, in whic! he explains the origin of the Northern languagev; publithed at Osiord in 1,45 , in folio, by Mr Edward Lee.

JUNKK, in lea language, a name given to any ren:nants or pieces of old cable, which is ufually cut intu fmall portions, for the purpofe of making foints, matt;, galkets, fennit, \&c.

JUNO, in Pagan worfisp, was the fifter and wite of Jupiter, and the goddefs of hingdons and riches; and alfo ftyled the queen of lieaven: the prefided over marriage and childbirth, and was reprelented as the daugibter of Saturn and Rhea. She married Jupiter ; but wah not the mof complaifant wife : for according to Hemer, that god was fometimes obliged to make vie of all his authority to keep her in due fubjection; and the fanke author obferves, that on her entering into a confpiracy againf him, he punithed her by fufpending her in the air with two anvils faftened to her feet, and golden manacles on her hands, while all the other deitics looked on without a polfibility of helping her. However, her jealoufy made her frequentiy find opportunities oĩ intermpting her hulband in the cousfe of his amonr-; and prompted her to punifl with unrelenting fury Europa, Senele, Io, Latona, and the reft of his millref. fes. Jupiter himlelf havirg conceived without any commerce with a female, Juno, in revenge, conceived Vulcan by the wind, Mars by touching a flower pointed out to her by the goddefs Flora, and Hebe by eating greedily of lettuces.

Juno, as the queen of heaven, preferved great fate: her ufual attendants were Ferror and Boldnefs, Callor, Pollux, and 14 nymphs; but her mof faithful attendant was the beautiful Iris, or the rainbow. Humer delcuibes her in a chariot adorned with precious ftones, the wheels of which were of ebony, and which was drawn by horfes with reins of gold. But the is more commonly painted drawn by peacocks. She was repre. fented in her temple at Corinth, feated on a throne, with a crown on her head, a pomegranate in one hand, and in the other a fecptre with a cuckoo on its top. This ftatue was of gold and ivory.

Some mythologifts fuppole thi:t Juno fignifies the air: others, that fie was the Egyptian Ifis: who being reprefented under varivus figures, was by the Greeks and Romans reprefented as fo many diftinct deitics.

JUNONALIA, a feftival obfersed by the Romans in honour of Juno. It was inflituted on account of certain prodigies that happened in Italy, and was celebrated by matrons. In the folemnity two white cows were led from the temple of Apollo intu the city through the gate called Carmentalis, and two images of Juno, made of eyprefs, were borne in proceffion. Them marched 27 girls, hatited in long rober, linging a hymn to the godeles; theri came the decemviri, crouri-

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ed with laurel, in reftments edged with purple. This pompous company, going through the Vicus jusarius, had a dance in the great field of Rome; from thence they proceeded through the Forum Boarium to the temple of Juno, where the victims were facrificed by the decemviri, and the cyprefs images were left ftand. ing. This feftival is not mentioned in the faffi of Orid, but is fully defcribed by Livy, lib. vii. dec. 3 . The bymn ufed upon the occafion was compofed by Lisius the poet.

IUNTO, in matters of government, denotes a felect council for taking cognizance of affairs of great contequence, which require fecrecy.

In Spain and Portugal, it fignifies much the fame with convention, affembly, or board, among us: thus we mect with the junto of the three eftates, of commerce, of tobacco, \&ic. See Board, \&c.

IVORY, in Naturol Hifory, \&sc. a hard, folid, and firm fubtance, of a white colour, and capable of a very good polih. It is the tuft of the elephant; and is hollow from the bafe to a certain height, the cavity beincr filled up with a compact medullary fubftance, feeming to have a great number of glands in it. It is obferved, that the Ceylon ivory, and that of the inland of Achem. do not become yellow in the wearing, as all other ivory does; for this reafon the teeth of thefe places bear a larger price than thofe of the coaft of Guinea.

Hardening, Sofiening, and Siaining of Iroar. See Bowes and Horns.
JUPITER, the fupreme god of the ancient Pazans. The theologits, according to Cicero, rectioned up theee Jupiters; the firft and fecond of whom were bo:n in Arcadia: of thefe two, the one fprang from Fther, the other from Cœlus. The third Jupiter was the fon of Saturn, and boin in Crete, where they pretended to thow his fepulchre. Cicero in other places fpeaks of feveral Jupiters who reigned in different countries. The Jupiter, by whom the poets and divines undertand the fupreme god, was the fon of Saturn king of Crete. He would have been ocvoured by his father as foon as bom, had rot his mother Rhea fubitituted a ftone inltead of the chiid, which Saturn immediately fwallowed. Saturn took this method to deftroy all his male children, becaufe it had been foretold by Colus and Terra, that one of his fons thould deprive him of his kingdom. Jupiter, being thus faved from his father's javs, was brought up by the Curetes in a den on Mount Ida. Virgil tells us. that he was fed by the bees; out of gratitude for which, he changed them from an iron to a golden colour. Some fay, that his nurfes were Amalthra and Melifa, who gave himegoats milk and honey; and others, that Amalthrea was the name of the goat which nourihed him, and which, as a revard for her great fervices, was changed into a conftellation. According to others, he was fed by wild pigeons, who brought him ambrofia from Oceanus; and by an eagle, who carried nectar in his beak from a fteep rock: for which he rewarded the Cormer, by making them the foretellers of winter and fummer; and the laft by giving him immortality, and making him his thunderbearer. When gromn up, he drove his father out of heaven, and divided the empire of the world witl his irothers. For himfelf, he had hcaven and earth. Yoy. XI. Sart 11.

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Nicptunc had the Lea and waters; and Pluto bel?. Tife Titatis undertook to deftoy Jupiter, as he hat dune his father. Thefe Titans were giants, the fons of Titan and the Earth. '1hey declared war againtt Jupiter, and heaped mountains upon mountains, in or der to feale heaven : but their efforts were muccerful. Jupiter overthrew them wish his thumler, and nut them up under the waters and mountains, from which they were :rot able to get out.

Jupiter had feveral wives: the fir!? of whom, named Meres, he is faid to lave devoured when big with child, by which he himfelf became pregnant; and Minerva ifued out of his head, completely armed aid fully grown. His fecond was Ilremis; the name of his third is not known; his fourth was the celebrated Juno, whom he deceived under the form of a cuckeo, which to thun the violence of a florm tled for thelter to her lap. He was the father of the Mufes and Graces: and had a prodigious number of children by his mif. trefles. He metamorphofed himfelf into a fatyr to enjoy Antiope; into a bull, to carry off Europd: into a lwan, to abule J.eda; into a thower of gold, to corrupt Danäe; and into feveral other forms to gratify his pations. He liad Bacchus by Semele, Diana and Apollo by Latona, and was the father of Mercury and the other gods.

The heathens in ge:teral believed that there was but one fupreme God; but s hen they confidered this one great being as influencing the affairs of the wozld they gave him as many different names: and bence proceeded their variety of nominal gods. When he thundered or lightened, they called him fupiler; wher he calmed the fea, Neptune; when lie guided their councils, Mineria; and when he gave tlem ftrengt $H_{1}$ in batile, MFars. In procefs of time they ufed difie. rent reprefentations of this Jupiter, \& c. and confidered them, rulgarly at leaft, as fo many different perfons. They afterward regarded each of them in difterent views: e.g. The Jupiter that howered down bleffings was called the Kind Gopiter ; and when punifhing, the Terrible fuciter. There was alfo one Jupiter for Eu:rope, and another for Africa; and in Suropc, theere was one great Jupiter who was the particular friend of the Athenians, and another who was the fpecial protector of the Romans; nay, there was farce a town or hamlet perhaps, in Italy, that had not a Jupiter of its own : and the Jupiter of 'I'erracisa or Jupiter Anxur, reprefented in medals as you:ig and beardlef. with rays round his head, more refembled Apollo than the great Jupiter at the Capitol. In this :"ay Jupiter at length lad temples and different charakers almont everywhere : at Carihage, he was called Ammon; in Egypt, Serapis; at Athens, tlie great Jupiter was the Olympian Jupiter; and at Rome the greateft Jupiter was the Capitoline Jupiter, who was the guardian and benefactor of the Komans, and whom they called the "beft and greateft Jupiter;" juziker ophimur moximus. The figure of this Jupieer was reprefer ted in his chief temple on the Capitoline hill, as futing on a curule chair, with the fulmen or thunder, or rather lightning in one hasd, and a feertre in the other. This fulmen in the figures of the old artifs was always adapted to the character under whicl they were to reprefent Jupiter. If his apparance was to be mild and cahn, they gave him the comic fulmen or $3 \dddot{E}$ bundle


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Jup see. bundle of fiames wreathed clofe together, held down in his hand: When punithing, he holds up the fame Eigure, with two tranfierfe darts of lightuing, fometimes with wings added to each fide of it, to denote its fiviftnefs; this was called by the peets the threeforked bolt of Jove: and when he was geing to do fome exemplary execution, they put in his hand a handful of flames, all let loofe in their utmoft fury; and fometimes filled both his hands with flames. Tlie fiperiority of Jupiter was principally manifefted in that air of majelly which the ancient artilts endeavoured to exprefs in his countenance : particular attention was paid to the head of hair, the eycbrows, and the beard. There are feveral heads of the mild Jupiter on ancient feals; where his face has a mixture of dignity and eafe in it, admirably defcribed by Virgil, En. i. ver. 256. The ftatues of the Terrible Jupiter werc generally of black marble, as thofe of the former were of white: the one fitting with an air of tranquillity; tbe other ftanding, more or lefs difturbed. The face of the one is pacific and ferene; of the other angry or clouded. On the head of the one the hair is regular and compofed ; in the other it is fo difcompofed, that it falls half way down the forehead. The face of the Jupiter Tonans refembles that of the Terrible Jupiter ; he is reprefented on gems and medals as holding up the triple bolt in his right hand, and ftanding in a chariot which feems to be whirled as impetuoully by four horles. Thus he is allo defcribed by the poets. Ovid, Deian. Herc. v. 28.; Horace, lib. i. od, 4. v. 8. Jupiter, as the intelligence prefiding over a fingle planet, is reprefented only in a chariot and pair : on all other occafions, if reprefented in a chariot, he is always drawn by four horfes. Jupiter is well known as the chief ruler of the air, whofe particular province was to direct the rains, the thunders, and the lightnings. As the difpenfer of rain, he was called Jुupiter Pluvius; under which character he is exhibited feated in the clouds, holding up his right hand, or extending his arms almoft in a ftraight line each way, and pouring a ftream of hail and rain from his right hand upon the earth; whilit the fulmen is held down in his left. The wings that are given him relate to his character of prefiding over the air: his hair and beard in the Antonine pil. lar are all fpread down by the rain, which defcends in a fheet from him, and falls for the refrefhment of the Romans; whilft their enemies are reprefented as ftruck with the lightnings, and lying dead at their feet.

Some confider a great part of the fable of Jupiter to include the hifory of Noah and his three fons; and that Saturn is Noal, who faw all mankind perifh in the waters of the deluge; and who, in fome fort, fwallowed them up, by not receiving them into the ark. Jupiter is Ham ; Neptune, Japheth; and Shem, Pluto.

The 'litans, it is thought, reprefent the old giants, who built the tower of Babel, and whofe pride and prefumption God had confousded, by changing their language, and pouring out the firit of difcord and divifion among them. The name of Fupiter, or Jovis Pater, is thought to be derived from Jehovah, pronounced with the Latin termination Jovis inftead of Jo$u$; and in medals we meet with Yoris in the nomina. iive, as well as oblique cafes: for example, Jovis cuflos, Youis propugnator, Josis flator. To the name fo-
vis was added pater" and afterwards, intead of "Jovis pater," Jupiter was ufed by abbreviation.
'Ihe name Jupiter was not known to the Hebrews till the reign of Alexander the Great, and the kings his fucceffors. Antiochus Epiphanes commanded the idol of Jupiter Olympius to be placed in the temple at Jerufalem; and that of Jupiter the defender of ftrangers in the temple on Mount Gerizin, 2 Macc. vi. 2. While St Paul and St Barnabas were at Lyftra, they were taken for gods, becaufe they cured one who had been lame from his birth, and that by an expreffion only ; St Paul was taken for Mercury, by reafon of his eloquence ; and St Barnabas for Jupiter (Acts xiv. 11, 12.), on account probably of his good mien.

Jupiter, 2f, in Aftronomy, one of the fuperior planets, remarkable for its brightnefs; and which by its proper motion feems to revolve round the earth in about twelve years. See Astronony Index.

JURA, one of the Hebrides, or Weftern Iflands of Scotland, lying oppofite to Knapdale in Argylethire, is fuppofed to be about 34 miles long and 10 broad. It is the moll rugged of all the Hebrides; and is com. pofed chielly of vaft mountains, naked, and without a poffibility of cultivation. Some of the fouth and weraern fides only are improveable, and in good feafons as much bear and oats are raifed as will maintain the inhabitants; though by the diftillation, as Mr Pennant fuppofes, of their grain, they fometimes want. Bear produces four or five fold, and oats threefold. Sloes are the only fruits of the ifland; befides the berries of the mountain-afh, from which an acid for punch is obtained, and a kind of fpirit is alfo diftilled. Neceflity hath in. frrested the inhabitants in the ufe of native dyes. Thus the juice of the tops of heath boiled fupplies them with a yellow; the roots of the white water lily with a dark brown; thofe of the yellow water inis with a black; and the galium verum, ru of the illanders, with a very fine red, not inferior to madder. On the hills is fome pallure for cattle ; and the produce, when Mr Pemmant vifited the inland, amounted to about 300 or 400 head of black cattle, fold annually at 3 l. each; in 1805 , the number of black cattle annually exported amounted to 500 , which bring at an average 81. each; and about 1000 heep, which bring 11. each; but goats are lefs numerous than formerly: about 100 horfes are alfo fold annually. The other animals of Jura are about 100 ftags; though thefe mult formerly have been much more numerous, as the original name of the illand was Deir ay, or the ife of deer, fo called by the Norwegians on account of the abundance of deer found in it. Here alfo Mr Pennant had fome obfcure account of a worm that, in a lels pernicious degree, refembles the Furia infernalis of Linnæus. The fillan, a little worm of Jura, fmall as a thread, and not an inch in length, infinuates itfelf under the fkin, caufes a rednefs and great pain, Hics fiviftly from place to place; but is cured by a poulitice of cheefe and honey. Of the mountains of Jura, thole from their thape called the paps, are the moft remarkable. 'There are only three very large ones: the biggent called Beinn-an-oir, or the mountain of gold, lies fartheft to the north; the fecond is called Beinn-heunta, or the hallowed mountain; and the third, Beinn-a.chaolois, or the mountain of the found, is the lealt of the three. MIr

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Pennant afcended the firl with great labour and difficulty. It is compofed of valt fones, covered with mofs near the bafe; but all above bare and unconnected with each other. 'The whole, he fays, feems a cairn, the work of the fons of Saturn. The grandeur of the profpect from the top abundantly made amends for the fatigue of afcending the mountain. Jura itielf afforded a ftupendous fcene of rock, varied with innumerable litulc lakes. From the weft fide of the hill ran a narrow tiripe of rock terminating in the fea, and called the flide of the old hag. To the fouth appeared Ilay extended like a map beneath his feet; and beyond that the north of lreland; to the eaft two other illands, Cantyre, Arran, and the frith of Clyde bounded by Ayrhire ; an amazing tract of mountains to the northealt as far as Benlomond; Skarba finilhed the northern view; and over the weftern ocean were fattered Colonfay and Oranfay. Mull, Iona, and its neighbouring inles; and thill further, the long extents of Tirey and Col, juft apparent. The other paps are feen very diflinctly, but all of them inferior in height. Mr Banks and his friends mounted that to the fouth, and found the height to be 2359 feet; but this is far overtopped by Beinn-an-oir. The flones of this mountain are white, a few red, quartzy, and compoled of fmall grains; but fome are breccinted, or filled with cryftalline kernels of an amethyltine colour. The other nones of the illand are, a cinereous ीlate, veined with red, and ufed here as a whetfone; a micaceous fandfone; and between the fmall illes and Arfin, a micaceous quartzy rock fone. On the well fide of the ifland there is an anchoring place called Whitfarian; towards the north end is a bay called $D a^{\prime}$ l yaul; and on the fame coaft is formed another riding place for veffels among feveral fmall illands. Between the north end of Jura and the fmall ille of Skarba, there is a famous whirlpool, called Cory Bhrccan, from Brecan fon to a king of Denmark, who perifhed in this gulf. His body being caft afhore on the north fide of Jura, was buried in a cave, and his grave is ftill diftinguifhed by a tombfone and altar. In this vortex, which extends about a mile in breadth, the fea begins to boil and ferment with the tide of flood, increafing gradually to a number of whirlpools, which, in the form of pyramids, fpout up the water with a great noife, as high as the malt of a fmall veflel, agitated into fuch a foam as makes the fea appcar white even at the diflance of two leagues. About half flood the violence begins to decreafe, and continues to do fo till about half an hour after high water: then it boils as before, till within an hour of low water, when the finalleft filling boat may crofs it without danger.

Jura is furnifhed with many rivulets and fprings of excellent water, and the air is remarkably healthy; its falubrity being increafed by the bigh fituation, perperually fanned by breezes. It is, however, but ill peopled; and did not contain above 700 or 800 inhabitants at the time it was vilited by Mr Pennant. The number in 1805 has increafed to 1 too. The women are prolific, and very often bear twins. The inhabitants live to a great age, and are liable to few dittempers. Men of 90 can work; and there was living in Pennant's time a woman of 80 , who could run down a theep. The inhabitants are all l'roteflants, bit addicted to
fome fupertitions. The parifh is fuppofed to be the largeft in Girat Britan, and the duty the mual dangerous and troublefome: it confitts of Jura, Oranlay, Colonfay, Skarba, and leveral little illes divided by narro:s and dangerous founds; forming a lengtl of not lefs than 60 miles; fupplied by only one miniltes and $2 n$ alliftant.

The very old clans of Jura are the Macilvuys and the Macraines; but it feems to have changed inatters more than once. In 1549 , Donaid of Cantyre, Macguillayne of Doward, Meguillaync of Kinlochbay, and Macdulfie of Coloniay, werc the proprietors: Maclean of Mull had allo a thare in 1586 . Mr Camybell of Jura, and Mr Macnell of Colonfay, are now (1807) the only propreturs of this itland; but by far the greatelt part belongs to the former.

Jura is alfo the name of a chain of mountains in Switzerland, beginning in the canton of Zurich, extending from thence along the Rhine into the canton and billopric of Bafle, ftretching into the canton of Soleure and the principality of Neuchatel, and branching out towards the Pays de Vaud; feparating that county from Franche Comte and Burgundy, and continued beyond the Genevan territories as far as the Rhone. Many elevated valleys are formed by different parts of this chain in the country of the Pays de Vaud; among which one of the molt remarkable is the valley of the lake of Joux, on the top of that part of the chain named Mont Joux. It contains feveral populous villages, and is beautifully diserfified with wood, arable land, and paiture. It is watered by two lakcs; the largelt of which is that of Joux already mentioned. This has one thore of a high rock covered with wood; the oppofite banks forming a gentle afcent, fertile and well cultivated; behind which is a ridge covered with pines, beech, and oak wood. The fmaller lake, named Brenet, is bordered with fine corn fields and villages; and the ftrcam which illues from it is loft in a gulf named Entonnoir, or the Funnel, where the people have placed feveral mills which are turned by the force of the falling current. The river Orbe iffues from the other fide of the mountain, about two miles from this place; and probably owes its origin to the fubterraasous fream jult mentioned. The largeft lake is fupplied by a rivulet which iffues from the bottom of a rock, and lofes itfelf in it. The valley contains about 3000 irhabitants, remarkable for their indultry. Some are watchmakers; but the greatel number employ themfelves in polithing cryffals, granites, and marcafites. The country is much infelted with bears and wolves. In afcending to this place there is a very extenfive profpect of great part of the Pays de Vaud, the lake of Geneva, and that of Neuchatel, which from that high point of view appear to be nearly on a level; though M. de Luc found the latter to be 159 feet above the level of the lake of Geneva.

JUR $\Lambda T S$, JURATI, magiffrates in the nature of Aldermen, for the government of feveral corporations. Thus we meet with the mayor and jurats of Maidfone, Rye, Winchelfca, \&c.-So alfo Jerfey has a bailiff and twelse jurats, or fworn affillants, to govern the illand.
lVREA, an ancient and frong town of Italy, in Picdmont, and capital of Canavez, with a ftrong fort,
yurcu a bilhop's fee, the title of a marquifate, and an anciest Io fiyl- caitle. It is fubject to the king of Sardinia, and featJurifici fult ed on tle river Duria between two hills, in E. Long.

JuriE.U, Peter, an eminent French Proteftant Givine, called ironicaily by the Papilts the Goliath of the Protefants, was bon in 1637. He was educated in England under his naternal uacle Peter du Moulin, and touk ordess in the Englith church; but returning to fucceed his father as piftor of a reformed congregation at Mier in the diocefe of Blois, he was made profelfor of divisity and Hebrew at Sedan, where he ucquired great reputation. This univerfity being taken from the Proteltants, a profeflorhip of dirinity was fuunded for him at Rotterdam; and he was alfo appointed minifter of the Walloon church in the fame town. Being now in a place of liberty, he gave full fcope to an imagination naturally warm, and applied himfelf to fludy the book of Revelation, of which he fancied he had by a kind of infpiration difcovered the true meaning; a notion that led him to many enthufiattical conjeatures. He was moreover fo uiffortunate as to quarrel with his beft friends for oppofing his rifionary opinions, which proluced violent difputes befireen him and Meffrs Bayle and de Beauval. He died in 1713 ; and left a great number of efteemed works behind him.

JURIN, Dr IAmes, a dilinguilhed perfon, who cultivated medicine and mathematics with equal fuccefs. He was fecretary of the Royal Society in London, as well as prefident of the College of Phyficians there. He had great difputes with Michelotti upon the moment of running waters, with Robins upon diflin\} wilion, and with the partizans of Leibnitz upon moving hodies. A treatife of his "upou Vifion" is printed in Smith's "Optics." He died in 1750 .

JURISCONSULTUS (ICtus), among the Romans, was a perfon learned in the law; a mafter of the Roman juritprudence; who was confulted on the interpretation of the laws and cuftoms, and on the dificult points in law fuits. The fifteen books of the Ligefts were compiled wholly from the anfivers or reports of the ancient jurifonfulti. Tribonianus, in deftroying the 2000 volumes from whence the Code and Wigeft were taken, has deprived the public of a world of things which would have given them light into the ancient office of the jurifconfulti. We fhould fcarcely have known any thing beyond their bare names, had not Pomponius, who lived in the fecond century, taken care to preferve fome circumfances of their office.

The Roman jurifconfulti feem to have been the fame with our chamber counfellors, who arrived at the honour of being confulted through age and experience, hut never pleaded at the bar. Their pleading advocates or lawyers never became jurifconfulti. See AD. vocate.

In the times of the commonwealth, the adrocati had by much the more honourable employment, as being in the ready way to attain the higheft preferments. They then defpifed the jurifoonfulti, calling them in derilion formularii and legulei, as having invented certain forms and monofyllables, in order to give their andwers the greater appearance of gravity and myftery.

But in procels of time they became fo much eftecmed, Juriftic that they were called pruaintes and fatienies, and the emperors appointed the judges to follow their advice. Augutus advanced them to be public oficers of the empire; fo that they were no longer conned to the petty comeils of prisate perfons.-Bern. Rutilius has in ritten the lives of the moft famous jurifcoufulti who have lived within thefe 2000 years.

JURISDICTION, a power or authority which a man has to do jullice in cales of coraplaint made before him. There are two kinds of juridiction, the on: coclefiafical, the orther fecular.

Secular furisdicsion belongs to the king and his juftices or delegates. The courts and judges at Weftminter have jurifdiction all over England, and are not reftrained to any county-or place ; but all other courts are confined to their particular juridictions, which if they exceed, whatever they do is erroneous. There are three forts of inferior jurifdictions; the fint is senere placita, to hold pleas, and the plantiff may fue cither there or in the king's courts. Another is the conu. fance of pleas, where a right is invefted in the lotd of the franchife to hold pleas: and he is the only perfors that can take advantage of it, by claiming his franchife. The third fort is an exempt juridiction, as where the king grants to fome city, that the inhabitants fhall be fucd within their city, and not elfewhere; though there is no juridiction that can withfand a certiorari to the fuperior cours.
Ecclefrafical Yurisdiction belongs to bihops and their deputies.

Bilhops, \&c. have two kinds of juriddition; the che internat, which is exercifed over the confcience in things putely firitual; and this they are fuppofed to hold innmediately of God.

The other is contentious, which is a privilege fome princes have given them of terminating difputes between ecclefiaftics and laymen.

JURISPRUDENCE, the fience of what is juit or unjuft; or the knowledge of laws, rights, cuftoms, flatutes, \&ic. necefliary for the adminiftration of juftice. See Law.

JUROR, Jurator, in a legal fenfe, is one of thofe twenty-four or twelve men who are fworn to delive: truth upon fuch evidence as thall be given them touch. ing any matter in queftion. The punithment of petty jurors attainted of giving a verdich contrary to evidence, willingly, is very fevere.
JURY, a certain number of men fwom to inquire into and try a matter of fact, and to declare the truth upon fuch evidence as thall appear before them.

Juries are, in thefe kingdoms, the fupteme judges in all courts and in all caules in which either the life, property, or reputation, of any man is concerned: this is the diftinguilhing privilege of every Briton, and one of the moft glorious advantages of our conflitution; for as every one is tried by his peers, the meanell fubject is as fafe and as free as the greateff. Sce the article Triain.

FUry Maf, whatever is fet up in room of a maf that has been loft in a form or an engagconent, and to which a lefier yard, ropes, and fails, are affixed.
juS corone. See Hereditaky Right, and Suc. cessios.

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Jus Yus Deiliberandi, in Scots Law, that right which an heir has by law of deliberating for a certain time whether he will reprefent his predecefor.

Yus Devolutum, in Scois Law, the right of tie church, of prefenting a minifiter to a vacant parilh, in care the patro: fhall neglect to ufe that right within the time limited by law.
fos Alarili, in Scois Law, the right the huband acquires to h:s wife's moveable eflate, in virtue of the marriage.

Yous Relicia, in Scors Lau, the right the wife has in the goods in communion, in cafe of the previous deceafe of the hurband.

Jos Preven:iogir, in Scots Law, the preferatle right of juridiction acruired by a court, in any caufe to which other courts are equally competent, by having exercifed the firf ast of jurifdiction.

Fus Civile, nmongit the Romans, fignified no more than the interpretation given by the learned, of the laws of the twelve tables, though the phrafe now extends to the whole fyitem of the Roman laws.

Fus Civiatis, fignifies freedom of the city of Rome, which entitled thofe perfons who had obtained it to moft of the privileges of Roman citizens-yet it differs from fics 2uritum, which extended to all the advantages which a free native of Rome was entitled tothe difference is much the fame as betwint denization and naturalization with us.

Jus Honorarium, was a name given to thofe Roman laws which were made up of edicts of the fuprene magiftrates, particularly the friztors.
yus Imaginis, was the right of ufing pictures and ftatues amongtt the Romans, and had fome refemblance to the right of bearing a coat of arms amongt us. This honour was allowed to none but thofe whofe anceftors or themfelves had borne fone curzle office, that is, had been Curule Edille, Cenfor, Prator, or Corful.

The ufe of ftatues, \&c. which the yous lnaginis gave, was the exhibiting them in funeral proceffions, \&c. See Image.

Jus Papirianum, was the laws of Romulus, Numa, and other kings of Rome, callected into a body by Sextus Papirius, who lived in the time of 'Tarquin the Proud; which accounts for the name.
ofus Trium Liberorum, was a privilege granted to fuch perfons in the city of Rome as had three children, by which they were exempted from all troublefome offices. The fame exemption was granted to any perfon wha lived in other parts of Italy, having four children; and thofe that lived in the provinces, provided they had five (or as fome fay feven) children, were entitled to the farne immunities. This was good policy, and tended to the population of the empire. For a further account of thele privileges, fee Chilbres.
JUSSICA, a genus of plants belonging to the decandria clafs; and in the natural method ranking under the $17^{\text {th }}$ order, Calycanthenice. See Borany Index.
JUST, a fportive kind of combat on horfeback, man againf- man, armed with lances. The word is by fome derived from the French jou fe, of the Latin jurta, becaufe the combatants fought near oae another. Salmafus derives it from the modern Grick aoufra, or rather $\tau_{9}^{\prime}$ ysega, which is ufed in this fenfe by N:cepho-
rus Gregorius. Others derive it from juffo, which in Jutize. the corrupt age of the Latin tongue was ufed for this exercife, by reafon it was fuppofed a more juft and equal combat than the tournament.
The difference between jufts and tournaments confirts in this, that the latter is the genus, of which the former is only a fpecies. Tournaments included all kinds of military fports and engagements made out of gallantry and diverfions: Jufts were thofe particular combats where the parties were near each other, and engaged with lance and fword. Add, that the tournament was frequently performed by a number of cavaliers, who fought in a body: The juft was a fingle combat of one man againft another. -Though the jufts were ulually made in tournaments after a general rencounter of all the cavaliers, yet they were fometimes fingly, and independent of any toumament. See Tourmament.
He who appeared for the firt time at a jul, forfeited his helm or cafque unlefs he had forfeited before at a tournament.
JUSTICE, in a moral fenfe, is one of the four catdinal virtues, which gives every perfon his due.

Civilians diftinguih juftice into two kinds: comms. nicative and diffributive. The former eftablifhes fair dealing in the mutual commerce between man and man; and includes fincerity in our difcourfe, and integrity in our dealings. The effect of fincerity is mutual confidence, fo neceffary among the members of the fame community; and this mutual confidence is fuftained and preferved by the integrity of our conduct.
Difributive jultice is that by which the differences of mankind are decided, according to the rules of equity. 'The former is the jutice of private individuals ; the latter of princes and magiltrates.

Fidelity and truth are the foundation of juftice. As to be perfectly jult is an attribute of the Divine Nature, to be fo to the utmoft of our ablity is the glory of man.
The follos:ing examples of this wistue are extracted from various authors.

1. Among the feveral virtues of Arifides, that for which he was moft renowned was juftice; becaufe this virtue is of moft general ufe, its benefits exiending to a greater number of perfons, as it is the foundation, and in a manner the foul, of every public office and employment. Hence it was that Ariltides, though in low circumftances, and of mean extraftion, obtained the glorious furname of the $\mathcal{F} u f$; a title, fays Plutarch, truly royal, or rather truly divine : but of which. princes are feldom ambitious, becaufe genera!ly ignorant of its beauty and excellency. They choofe rather to be called the conquerors of cities and the thunderboles of war, preferring the vain honour of pompous titles, which convey no other idea than violence and flaughter, to the folid glory of thofe exprellive of goodnefs and virtue. How much Ariflides deferved the title given him, will appear in the following inftances; though it ought to be obferved, that he acquired it not by one or two paricular actions, but by. the whole tenor of his comduct.

Themittocles haring conceived the defign of fup. planting the Lacedemonians, and of taking the government of Greece out of their hands, in order to put it into thofe of the Athenians, kept his cye and his: thoughts

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 thoughts continually fixed upon that great project ; and as he was not very nice or fcrupulous in the choice of his meafures, whatever tended towards the accomplifhing of the end he had in view he looked upon as juft and lawful.On a certain day then he declared in a full affembly of the people, that he had a very important deiign to propofe; but that he could not communicate it to the people, becaufe its fuccefs required it flould be carried on with the greateft fecrecy: he therefore defired they would appoint a perfon to whom he might explain himfelf upon the matter in queltion. Ariftides was unanimounly fixed upon by the whole affembly, who referred themfelves entirely to his opinion of the affair; fo great a confidence had they both in his probity and prudence. Themitlocles, therefore, having taken hin afide, told him that the defign he had conceived was to burn the fleet belonging to the reff of the Grecian fates, which then lay in a neighbouring port; and by this means Athens would certainly become miftrefs of all Greece. Ariftides hereupon returned to the affembly, and only declared to them that indeed nothing could be more advantageous to the commonwealth than Themiltocles's project, but that at the fame time nothing in the world could be more unjult. All the people unanimounly ordained that 'Themiftocles fhould entirely defift from his project.

There is not perhaps in all hiftory a fact more worthy of admiration than this. It is not a company of philofophers (to whom it cofts nothing to eftablifh fine maxims and fublime notions of morality in the fchool) who determine on this occafion that the confideration of profit and advantage ought never to prevail in preference to what is honeft and juft; but the whole people who are highly interefted in the propofal made to them, that are convinced it is of the greatelt importance to the welfare of the fate, and who, however, reject it with unanimous confent, and without a moment's hefitation; and for this only reafon, that it is contrary to juftice. How black and perfidious, on the other hand, was the defign which Themiftocles propofed to them, of burning the fleet of their Grecian confederates at a time of entire peace, folely to aggrandize the power of the Athenians! Had he a bundred times the merit afcribed to him, this fingle action would be fufficient to fully all his glory; for it is the heart, that is to fay, integrity and probity, which conflitutes and diftinguifhes true merit.
2. The government of Greece having paffed from Sparta to the Athenians, it was thought proper under this new government to locge in the ifiand of Delos the common treafure of Greece; to fix new regulations with regard to the public money; and to lay fuch a tax as might be regulated according to the revenue of each city and itate, in order that the expences being equally borne by the feveral individuals who compofed the body of the allies, no one might lave reafon to murmur. The difficulty was to find a perfon of fo honelt and incorrupt a mind, as to difcharge faithfully an employment of fo delicate and dangerous a kind, the due adminiffration of which fo nearly concerned the public welfare. All the allies caft their eyes on Arillides; accordingly they invefted him with full poucrs, and appointed him to levy a tax on each of them, relying entirely on his wifdom and
juftice. The citizens had no caufe to repent their choice. He prefided over the treafury with the fidelity and difintereftednefs of a man who looks upon it as a capital crime to emberzle the finalleft portion of another's poffeffions, with the care and activity of a father of a family in the management of his orn eflate, and with the caution and integrity of a perfon who confiders the public money as facred. In fine, he fucceeded in what is equally difficult and extraordinary, viz. to acquire the love of all in an office in which he who efcapes the public odium gains a great point. Such is the glorious charater which Seneca gives of a perfon charged with an employment of almof the fame kind, and the noblett eulogium that can be given to fuch as adminifter public revenues. It is the exact picture of Ariftides. He difcovered fo much probity and wifdom in the exercife of this office, that no man complained; and thofe times were confidered ever after as the golden age; that is, the period in which Greece had attained the highelt pitch of virtue and happinefs.
While he was treafurer-general of the republic, he made it appear that his predeceffors in that office had cheated the ftate of valt fums of money, and among the reft Themiltocles in particular ; for this great man, with all his merit, was not irreproachable on that head; for which reafon, when Ariftides came to pafs his account, Themiftocles raifed a mighty faction againft him, acculed him of having embezzled the public treafure, and prevailed fo far as to have him condemned and fined. But the principal inhabitants, and the moft virtuous part of the citizens, rifing up againłt fo unjuft a fentence, not only the judgement was reverfed and the fine remitted, but he was elected treafurer again for the year enfuing. He then feemed to repent of his former adminiftration; and by fhowing himfelf more tractable and indulgent towards others, he found out the fecret of pleafing all that plundered the commonwealth; for as he neither reproved them nor narrowly infpected their accounts, all thefe plunderers, grown fat with. Poil and rapine, now extolled Ariftides to the fkies. It would have been eafy for him, as we perceive, to have enriched himfelf in a poft of that nature, which feems, as it were, to invite a man to it by the many favourable opportenities it lays in his way; efpecially as he had to do with officers, who for their part were intent upon nothing but robbing the public, and would have been ready to conceal the frauds of the treafurer their mafter, upon condition he did them the fame favour. Thefe very ofticers now made intereft with the people to have him continued a third year in the fame employment : but when the time of election was come, juft as they were on the point of electing Ariftides unanimoully, he rofe up, and warmly reproved the Athenian people: "What (fays he), when I managed your treafure with all the fidelity and diligence an honeft man is capable of, I met with the moft cruel treatment, and the moft mortifying returns; and now that I have abandoned it to the mercy of thefe robbers of the republic, I am an admirable man and the beft of citizens! I cannot help declaring to you, that 1 am more anhamed of the honour you do me this day, than I was of the condemnation you paffed againt me this time twelvemonths; and with grief I find that it is more glorious

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Juntice. with us to be complaifant to knaves than to fave the treafures of the republic." By this declaration he filenced the public plunderers and gained the efleem of all good men.
3. In the Univerfal Hiftory we meet with the following remarkable inftance of a fcrupulous regard to juftice in a Perfian king named Noufchirran. Having been out a lounting, and defirous of eating fome of the venifon in the field, feveral of his attendants went to a neighbouring village and took away a quantity of falt to feafon it. The king fufpecting how they had acted, ordered that they fhould iminediately go and pay for it. Then turning to his attendants, he faid, "This is a fmall matter in itfelf, but a great one as it regards me: for a king ought ever to be juf, becaufe be is an example to his fubjects; and if he fiverves in trifles, they will become'difolute. If I cannot make all my people jult in the fralleft things, I can at leaft fhow them it is poffinle to be fo."

Thefe examples, to which many more might be added, are bighly pleafing to a fagacious and virtuous mind ; but the fenfual and brutal part of mankind, who regard only the prefent moment, who fee no objects but thofe which fall under the cognizance of the corporeal eye, and eftimate the merit of every action by the gain which it ?roduces, have always confidered jutice and utility as iidependent of each other. They put utility in the balance againf honelly every day; and never fail to incline the beam in favour of the former, if the fuppofed advantage is thought to be confiderable. They have no regard to juftice but as they reckon to gain by it, or at leaft not to lofe; and are always ready to defert it when it expofes them to any danger or threatens them with any lofs. From this difpofition of mind proceeds that avidity of wealth and that habitual fraud which perpetually embroil civil fociety : from this fatal fource arifes that deluge of iniquity which has overtlowed the world; from this preference of intereft to honefly proceed every unjult litigation and every act of violence. And yet nothing is more certain than that "Wlatever is unjuit muft, upon the whole, be difadvantageous;" which might be proved thus:

Nothing is advantageous or ufeful but that which has a tendency to render us happy: the higheft advantage, or abfolute utility, is complete happinefs; and to this happinefs, whatever is advantageous or uleful is relative as to an uitimate end; and nothing that is not thus relative to happinefs can properly be faid to he advantageous or ufeful. But whatever is unjuft, is fo far from tending to promote, that it defroys our happine's; for whatever is unjuft is contrary to the Divine wil' : but it is not polifible that we foould become happy $y$ retilling that will ; be intife of this will our happin $r_{s}$ is the immediate obict. God is not a tyrant, proud of uncontroulable prow.er who impofes capricious laws only as tefts of our obedience, and to make us feel the weight of his yoke; all his precents are leffons which teach us how to be happy. But it is the will of God that we fhould be juff ; from whence it follows, that no true happinefs can be acquired by thofe who are unjuft. An achion, therefore, which is contrary to the will of God, muft be inconfiftent with our true interelt; and confequently, fo far from being defful or expedient, it mult inevitably produce ruin
and mifery. Itjultice fometimes meets with the pus. Julke. niliment it delerses in this world; but if it hould $\underbrace{\text { J }}$ efcape liere, it does not loliow that it will for ever efcape. It proves, on the comiary, that there is another world in which the fates of mankind will be im. partially decided.

But to prevent the dreadful confufion which the miltaken notion of intereli had introduced among mankind, it became neceifary to have recourfe to the innate principles of juftice; to fufpend the balance and difplay the fword, for the determination of differences and the punithment of guilt. This is the reafon and origin of diftributive juftice, which became the necef. fary appendage of fovereignty. Accordingly, in ancient times, princes adminiftered juftice in perfon and without delay ; but at length being embarraffed and opprefled by the multiplicity of bufinefs which increafed with their dominions, or diverted from their attention to civil government by the command of armies, certain laws were eftablifhed with great folemnity to adjuft and determine the differences which might arile among the members of the fame community, and to reprefs the infolence of thofe who dared to violate the public peace, by poffeffing them with the dread either of corporeal punilhment or infamy. The execution of thefe laws was put into the hands of fubordinate judges. Thefe delegates of the fovereign power were called magillrates; and thefe are the perfons by whon juftice is at this time adminitered, except in particular cafes, in which the fovereign himfelf interferes. But by whomfoever this kind of juftice is adminiftered, it ought to be done §peedily, impartially, and without expence to the parties.
4. Ariltides being judge between two private perfons, one of them declared, that his adverlary had greatly injured Ariftides. "Relate rather, good friend (faid he, interrupting him), what wrong he hath done thee; for it is thy caufe, not mine, that I now fit judge of."-Again: Being defired by Simonides, a poet of Chios, who had a caufe to try before him, to fretch a point in his favour, he replied, "As you would not be a good poet if your lines ran contrary to the juit meafures and rules of your art; fo 1 thould neither be a good judge nor an honeft man if I decided aught in oppolition to law and juftice."
5. Artabarzanes, an officer of Artaxerses king of Perfia, begged his majelly to confer a favour upon him; which if complied with would be an act of injultice. The king being informed that the promife of a confifiderable fum of money was the only motive that induced the officer to make fo unreafonable a requelt, ordered his treafurer to give him thirty thouland dariufes, being a prefent of equal value with that which he was to have reccived. Giving him the order for the money, "Here, take (fays the king) this token of my friendfhip for you: a gift of this nature cannot make me poor; but complying with your requeft would make me poor indeed, for it would make me unjuit."
6. Cambyfes king of Perfia was remarkable for the feverity of his government and his inexorable regard to juftice. The prince had a particular favourite whom he made a judge; and this judge reckoned him. felf fo fecure in the credit he had with his mafter, that without any more ado caufes were bought and lold in.

Jifice. the courts of judicature as openly as provifions in the market. Bur when Cambyfes was infornced of thefe proceedinge, enraged to find his friendthip fo ungratefully abufed, the honour of his goverament proftituted, ard the liberty and property of his febjects facrificed to the avarice of his wretched nimion, he ordered him to be feized and publicly desraded: after which he commanded his Rim to be flipped over his ears, and the feat of judgement to be corered with it as a warning to others. At the fame time, to convince the world that this feverity proceeded only from the love of juflice, he permitted the for to fucceed his father in the honours and office of prime minifter.
7. When Chatles duke of Burgundy, furnamed the Bold, reigned ove: Cpacious domin:ons, now fwallowed up by the power of France, he heaped many fawours and honcurs upon Claudius Rynfault, a German, who had ferved him in his wars againf the infults of his neighbou:s. The prince himfelf ras a perfon of fingular humanity and juftice; and being prenoffeffed in fayour of Rynfault, upon the deceale of the governor of the chief town of Zealand gave him that command. He was not long feated in that government before he cafl his eyes upon Sapphira, a woman of exquifite beauty, the wife of Paul Danvelt, a wealthy merchant of the city under his protection and government. Rymfault was a man of a warm confitution, and violent inclination to women. He knew what it was to enjoy the fatisfactions which are reaped from the poffeflion of beauty; but was an utter franger to the decencies, honours, and delicacies, that attend the pafion toward them in elegant minds. He could uith his congue utter a paffion wita which his heert was wholly untouched. In flort, he was one of thofe brutal minds which can be gratified with the riolation of innocence and beauty, without the lealt pity, paffion, or love for that with which they are fo much delighted.

Rynfault being refolved to accomplifh his will on the wife of Danvelt, left no arts untried to get into a familiarity at her houfe; but the knew his character and difpofition too weil not to fhun all oceafions that might enfaare ner into his converfation. The Igovernor, defpairing of fuccefs by ordinary means, apprehended and imprifoned her huband, under pretence of an information that he was guilty of a correfpondence with the enemies of the duke to betray the town into their poffeffion. This defign had its defired effect; and the wife of the unfortunate Danvelt, the day before that which was appointed for his execution, prefented herfelf in the hall of the governor's houle, and as he paffed through the apartment thiew herfeif at his feet, and holding his knees, befeeched his mercy. Rynfault beheld her with a diffembled fatisfaction; and affuming an air of thought and authority, he bid her rife, and told her the mut follow him to his clofet ; and alking her whether the knew the hand of the letter he pulled out of his pocket, went from her, leaving this admonition aloud: "If you would fave your hufband, you muft give me an account of all you know, withour prevarication; for every body is fatisfied that he is too fond of you to be able to hide from you the names of the reft of the confpirators, or any other particulars whatfoever." He went to his clofet, and foon after the lady was fent for to an
audience. The fervant knew his diftarice when matters of Itate were to be debated; and the governor, laying afide the air with which he had appeared in public, began to be the fupplicant, and to rally an athiction which it was in her power eafily to remove. S':e eafily perceived his intention: and, bathel in tears, began to deprecate fo wicked a defign. Luft, like ambition, takes all the faculties of the mind and body into its fervice and fubjection. Her becoming teare, her homett anguilh, the wringing of her hands, and the many changes of her pofture and figure in the vehemence of fpeaking, were but fo many attitudes in which he beheld her beauty, and farther incentives of his defire. All humanity was lolt in that one appetire ; and he fignified to her in fo many plain terms, that he was urhappy till he polfeffed her, and nothing lefs thruld be the price of her hufband's life; and the mult, before the following noon, pronounce the death or enlargement of $D$ nvelt. After this notification, when he faw Sapphira enough difracted to make the fubject of their difcourfe to common eyes appear different from what it was, he called his fervants to conduct her to the gatc. Loaded with infupportable afflittion, the immediately repairs :o her hufband, and having ingnified to the gaolers that the had a propofal to make to lier huband from the governor, the was left alone with him, revealed to him all that had paffed, and reprefented the endlefs contlict the was in between love to his perfon and fidelity to his bed. It is eafy to imagine the flarp afflition this honeft pair were in upon fuch an incident, in lives not ufed to any but ordinary occurrences. The man was bridled by Chame from feaking what bis fear prompted upon fo near an approach of death; but let fall words that fignified to her, he fhould not think her polluted, though fre bad not confefied to him that the governor had riolated her perfon, fince he knew her will had no part 'in the ation. She parted from him with this oblique permifion, to fave a life he had not refolution enough to refign for the fafety of his honour.
The next morning the unhappy Sapphira atiended the governcr, and being led into a remote apartment, fubmitted to his delires. Rynfault commended her charms; claimed a familiarity after what had paffed between them; and with an air of gaiety, in the language of a gallant, bid her return and take he: hufband out of prifon: but, continued he, my fair one muft not be offended that I have taken care he fhould not be an interruption to our future affignations. Thefe laft words foreboded what fhe found when the came to the gaol, her hulband executed by the order oi Rynfault.

It was remarkable, that the woman, who was full of tears and lamentations during the whole courfe of her affiction, uttered neither figh nor complaint, but flood fixed with grief at this confummation of he: misfortunes. She betook herfelf to her abode; and, after having in folitude paid her devotion to Hi '3 who is the avenger of innocence, the repaired privately to court. Her perfon, and a certain grandeur of forrow negligent of forms, gained her paffage into the prefence of the duke her fovereigu. As foon as the came into the prefence, the broke forth into the following words: " Behold, O mighty Charlec, a wretch weary of life, though ir has always been fpent with innocence and

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tice. viriue. It is not in your poreer to recirefs nsy injuries, but it is to arenge them; and if the protection of the dilirelled, and the punilhment of oppreffors, is a tak wortly of a prince, I bring the duke of Burgundy ample matter for doing honour to his own great name, and of wiping infamy off mone." When the had fpoken this, the detivered to the duke a paper reciting her fory. He read it with all the emotion that indignation and pity could raife in a priace jealous of his honour in the belaviour of his officers and the profperity of his fubjects.

Upon an appointed day Rynfault was fent for to court, and in the prefence of a few of the courcil confronted by Sapphira. The prince alking, "Do you know that lady ?" Rynfault, as foon as he could recover his furprile, told the duke he would marry her, if his highnefs would pleafe to think that a reparation. The duke feemed contented with this anfwer, and $1 l o o d$ by during the immediate folemnization of the ceremony. At the conclufion of it he told Rynfault, "Thus far you have done as conftrained by my authority: I thall not be fatisfied of your kind ufage of her, without you fign a gift of your whole ellate to her after sour deceafe." To the performance of this alfo the duke was a witnefs. When thefe two acts were exeruted, the duke turning to the lady, told her, "It now remains for me to put you in quiet polieltion of what your hufband has fo bountifully beftowed on you; and ordered the immediate execution of Rinfault.
8. One of the greateft of the Turkifh princes was Mamood, or Mahmud, the Gaznevide. His name is fill venerable in the eaft; and of the noble parts of his character, a regard to jultice was not the leafl. Of this the following example is related by Mr Gibbon in his Decline and Fall of the Roman Empire - As he fat in the divan, an unhappy fubject bowed before the throne to accufe the infolence of a Turkilh foldier who hal driven him from his houle and bed. "Sufpend your clamours (faid Mahmud) ; inform me of his next vilit, and ourfelf in perfon will judge and punith the offender." The fultan followed his guide; invefted the houfe with his guards; and extinguilhing the torches, pronounced the death of the criminal, who had been feized in the act of rapine and adultery. After the execution of his fentence, the ligluts were relin.lled, and Mahmud fell proltrate in prayer; then rifing from the ground, he demanded lome homely fare, which he devoured with the voracioufnefs of hunger. The poor man, whofe injury he had avenged, was unable to fupprefs his aftoniffrment and curiofity; and the courteous monarch condefcended to explain the motives of this fringular behaviour. "I had reafon to fufpect that none evcept one of my fons could dare to perpetrate fuch an outrage; and I extinguifhed the lights, that my jutice might be blind and inexorable. My praying was a thankigiving on the difcovery of the offender; and fo painful was my anxiety, that I had pafi-d three days without food fince the firlt moment of your complaint."
9. In Burgoanne's Travels in Spain, vol. ii. p. 364. the follo ring aneciote is given of Peter 11I. of Calilile. A canon of the cathedral of Seville, affected in his drefs. and particularly in his Shoes, could not find a workman to his liking. An unfortunate thoemaker,

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to whom le applied after quitting many othere, hav. Juftice. ing brought him a pair of thoes not made to pleafe his tate, the canon tecame furious, and cizsum one of the tools of the thoemaker, gave him with it fo many blows upon the head, as laid hitn dead uuon the floor. The unhappy man left a widow, four daughters, and a fon 13 years of age, the eldeft of the indigert famiiy. They made their complaints to the chapter: whe cavon was profecuted and condemned not to appear in the choir for a year. The young fhoemaker having attained to man's effate, was fearcely alle to get a livelihood; and overwhelmed with wretchednefs, fat down on the day of a proceftion at the door of the cathedra! of Seville in the momeat the procelfion palsed by. Amonglt the other canons he perceived the murderer of his father. At the fight of this man, filial affection, rage, and defpair, fo far got the better of his reaforn, that he fell furroufly upon the prief, and ftabbed him to the heart. The young man isas feized, convicted of the crime, and immedintcly condemned to be quartered alive. Peter, whom we call the Crucl, and whom the Spaniards, with more reafon, call the loser of juffice, was then at Seville. The affair came to his knowledge; and after learning the particulare, he determined to be hinsfelf the judge of the young thoemaker. When he proceeded to give jud sement, he firf annulled the fentence juft pronounced by the clergy: and after alking the young man what profeflion he was, "I forbid you (faid he) to make thoes for one year to come."
10. In Gladuin's Hillory of Hindo\&an, a dingular fact is related of the emperor Jehangir, under vihofe father Akber the Mogul empire in Hindoflan firt obtained any regular form. Jchangir ficceeded him at Agra on the 22d of October 160; ; and the firf order which he iffued on his acceffion to the throne was for the conlfuttion of the golden chain of jufice. It was made of pure gold, and rieafured 30 yards, confilting of 60 links, weighing four maunds of Hindoflan (about 400 pounds avoirdupois). One end of this chain was fufpended from the royal baftion of the fortrefs of Agra, and the other fatened in the ground near the lide of the river. The intention of this extraordinary invention was, that if the othicers of the courts of law were partial in their decifions, or dilatory in the adminifration of juftice, the injured partics might come themfelves to this chain ; and making a noife by thating the links of it, give notice that they wore waiting to reprefent their grievances to his majefty."

Justice is alfo an appellation given to a perfon deputed by the king to adminifter juftice to his fubjects, whofe authority arifes from his deputation, and not by right of magiffracy.

Of the fe juftices there are rarious kinds in England; viz.

Chicf Yostice of the King's Bench, is the capital jultice of Great Britain, and is a lord by his office. His bufnefs is chiefly to hear and determine all pleas of the crown; that is, fuch as concern offences againf the crown, dignity, and peace of the king; as treafons, felonics, \&c. This ollicer was formerly not only chief jultice, but alfo chief baron for the exchequer, and malter of the court of wards. He ufually fat in the king's palace, and therc executed that office, for3 F merly mer'y periorned for connitem paiazii; l:e cetumined in that piace all the differuces happoning betreen the barons and other great men. He had the prerogative of being vicegerent of the kingdon whenever the king wont beyond fea, and was ufually chofen to that office ont of the prime notility; but his power was reduced by King Richard I. and King Edwar.l I. His office is now divided, and his tille changed from capitais simglia juflitiarius, to capitalis jufitiarius ad placita coram rege tenenda, or capitalis julitiories bonci


Chief Yuestice of the Common Pleas, he who with his aftifants herrs ard determines all caufes at the common law ; tha: is to fay, all civil caufes between common perfons, as well perfonal as real; and lee is alfo a lord by his office.

Fustice of the Foref, is a lord by his office, who has fouter and authority to determine offences committed in the king's forefls, \&ic. which are not to be determined by any cther court of juftice. Of thefe there are two; "hercof one has jurifdiction over all the forefts on this fide Trent, and the other beyond it.

By many ancient records, it appears to be a place of great honour and authority, and is never beffowed but on fome perfon of great diftinction. The court where this jufticc lits is called the juffice fent of the joref, held once every three years, for hearing and determining all trefpaifes witbin the foreft, and all claim of franchiles, liberties, and privileges, and all pleas and caufes whatfoever therein arifing. This court may fine and imprifon for offences within the foreft, it being a court of record; and therefore a writ of error lies from hence to the court of king's bench. The lan court of jultice feat of any note was that held in the reign of Charles I. before the earl of Holland. After the Reftoration another was held for form's fake before the earl of Oxford; but fince the Revolution in 1668 , the foreft laws have failen into total difufe, to the great advantage of the fubject.
'This is the only juftice who may appoint a deputy : he is allo called jupice in eyre of the foref.

Yustices of $A$ Ifize, were fuch as were wont by fpecial commifion to be fent into this or that county to take affizes, for the eafe of the fubjects. For, whereas thefe actions pafs always by jury, fo many men might not without great damage and charge be brought up to London; and therefore juttices, for this purpofe, by commiffions particularly authorized, were fent down to them. 'Thefc continue to pafs the circuit by two and two twice every year through all England, except the four northern counties, where they go only once, defpatching their feveral bufineftes by feveral commifions; for they have one commilfion to take aflizes, another to deliver gaols, and another of oyer and termitier. In London and Middlefex: a court of general gaol-delivery is held eight times in the year.

All the juftices of peace of any county wherein the aflizes are held, are bound by law to attend them, or elfe are liable to a fine; in order to return recognizances, \&c. and to affit the judges in fuch matters as lie within their knowledge and jurifdiction, and in which fome of them have been probably concerned, by way of previous examination. Sce Assizes and JURY,

Fersices in Eyre (juficiariliminerantes, or erranies), Jußice. weie thoic who were anciently fant with commimion into divers counties to hear fuch caufes efpecial.'y as were termed plias of the crown; and that for the eafe of the fubject, who mut elfe have been hurried to the courts of Weitminfter, if the caules were too high for the county courts.

According to fome, thefe juftices were fent once in feven years; but others will have them to have been fent oftener. Camden fays, they were inftituted in the reign of King Henry II, A. D. 118 $\mathcal{F}_{\text {; }}$ but they appear to be of an older date.

They were fomewhat like our juftices of affize at this day; though for authority and manner of proceeding very different.

Jusitess of Gaol-Delivery, thofe commiffioned to hear and determine caufes appertaining to fuch as for any offence are calt into prifon. Jufices of gaol-delivery are empowered by the common lase to proceed upon indiements of felony, trefpafs, \&c. and to order execution or reprieve; and thcy have power to difcharge luch prifoners as upon their trials thall be acquitted; alfo all fuch againf whom, on proclamatio: made, no evidence appears to indict ; which juftices of oyer and terminer, \&ic. may not do. 2. Hauk. 24, 25. But thefe juftices having nothing to do with any perfon not in the cultody of the prifon, except in fome feccial cafes; as if fome of the accomplices to a felony may be in fuch prifon and fome of them out ot: it, the jultices may scceive an appeal againt thefe who are out of the prifon as well as thofe who are in it ; which appeal, after the trial of fuch prifoners, fhall be removed into B. R. and procefs iffue from them againt the rell. But if thofe out of priton be omitted in the appeal, they can never be put into any other; becanfe there can be but one appeal for the felony. In this way the gaols are cleared, and all offenders tried, punifhed, or delivered, in every year.-Their commilion is turned over to the juflices of affize.

Justices of Nif Prius, are now the fame with juftices of afrixe. It is a common adjournment of a caufe in the commen pleas to put it off to fuch a day, $N: / \sqrt{2}$ prius juficiarivencri:i ad cas partes ad capiendas a/fras: from which claufe of adjournment they are called jufices of $n i \sqrt{2}$ prius, as well as jufices of $a / f z e c$, on account of writ and actions they have to deal ir.

Justices of Oyer and Terininer, were jufices deputed on lome fpecial occalichs to hear and determine particular caules.-The commiffion of oyer and terminer is directed to certain perfuns upon any infurrection, heinous demeanor, or trefpafs committed, who mult firft inquire, by means of the grand jury or inqueft, before they are empowered to hear and determine by the help of the petit jury. It was formerly held, that no judge or other lawyer could act in the commiftion of oyer and terminer, or that of gaol-delivery, within the county where he was born or inhabited; but it was thought proper by 12 Geo. II. cap. $2 \%$. to allow any man to be a juftice of oyer and terminer and general gaol-delivery within any county of England.

Justices of the Peace are perfons of intereft and credit, appointed by the king's commiffion to keep the peace of the county where they live.

Of thefe fome for fpecial refpect are made of the马uorum fo as no bufinefs of importance may be de.
foatched

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patched without the pretence or affiant of them or one of them. However, every justice of peace hath a Separate power, and his office is to call before him, examine, iflue warrants for apprehending, and commit to prifon, all thieves, murderers, wandering rogues; thole that hold confpiracies, riots, and almoft all deling̨uents which may occafion the breach of the peace and quiet of the fubject ; to commit to prion foch as cannot find bail, and to fee them brought forth in due time to trial ; and bind over the profecutors to the afSizes. And if they neglect to certify examinations and information to the next gaol delivery, or do not bind over profecutors, they fthould be finer. A juftice may commit a perfon that doth a felony in his own view, without a warrant ; but if on the information of another, he mut make a warrant under hand and feal for that purpofe. If complaint and oath be made before a justice of goods folen, and the informer, fufpecting that they are in a particular houle, flows the caufe of his fuppicion, the juffice may grant a warrant to the conftable, \&c. to fearch in the place fufpected, to frize the goods and perfon in whole cultody they are found, and bring them before him or fame other justide. The fearch on there warrants ought to be in the day time, and doors may be broke open by confables to take the goods. Juftices of peace may make and perfuade an agreement in petty quarrels and breaches of the peace, where the king is not entitled to a fine, though they may not compound offences or take money for making agreements. A juftice hath a diffcretionary power of binding to the good behaviour ; and may require a recognizance, with a great penalty of one for his keeping of the peace, where the party bound is a dangerous perfon, and likely to break the peace, and do much mifchief; and for default of fureties he may be committed to gaol. But a man giving fecurity for keeping the peace in the king's bench or chancory, may have a fuperfedeas to the juftices in the connty not to take fecurity; and aldo by giving furety of the peace to any other juftice. If one make an affiault upon a juflice of peace, he may apprehend the offender and commit him to gaol till he finds fureties for the peace; and a juftice may record a forcible entry on his own poffeflion; in other cafes he camot judge in his own cause. Contempts again juftices are punilbable by indictment and fine at the fefions. Justies shall not be regularly punished for any thing done by them in feffion as judges; and if a juntice be tried for any thing done in his office, he may plead the general iffue, and give the fpecial matter in evidence; and if a verdict is given for him, or if the plaintiff be nonsuit, he hall have double cots; and fuck action hall only be laid in the county where the offence is committed, 7 lac. 5. 21 Jas. cap. 12. But if they are guilty of any midderneanor in office, infurmaion lies again them in the king's bench, where they fall be punished by fine and impritorment; and all perfons who recover a verdict againt a juftice for any wilful or malicious injury, are entitled to double coff. Ry ${ }_{24}$ Geo. II. cap. 44. no writ fall be fuad out again any juftice of peace, for any thing done by him in the execution of his office, until notice in writing fall be delivered to him one month before the fling out of the fame, containing the cafe of action, \&c, within which mouth he may tender amends; and
if the tender be found fufficient, he mall have a verdi at, Juftice. \&c. Nor fall any action be brought againt a jutlice for any thing done in the execution of his office, unlefs commenced within fix months after the act committen.

A julie is to exercife his authority only within the county where he is appointed by his commotion, not in any city which is a county of itfelf or town corporate, having their proper justices, Exc. but in other towns and and liberties he may. The power and office of juftices terminates in fix months after the demise of the crown, by an exprefs writ of difcharge under the great feal, by writ of fuperfcaleas, by a new commifion, and by acceftion of the office of Sheriff or coroner.

The original of jullices of the peace is referred to the fourth year of Edward III. They were first called converfators, or wardens of the peace, eleded by the county, upon a writ directed to the sheriff: but the power of appointing them was transferred by fatutes from the people to the king; and under this appelladion appointed by 1 Eds. III. cap. 16. Afterwards the Statute $3+\mathrm{Edw}$. III. cap. I. gave them the power of trying felonies, and then they acquired the appellation of juffice. 'They are appointed by the king's fpecial commiffion under the great feal, the form of which was Settled by all the judges, A. D. 1590 ; and the king may appoint as many as he thall think fit in every county in England and Wales, though they are generally made at the difcretion of the lord chancellor, by the king's leave. At firft the number of justices was not above two or three in a county, 18 Edw. Ill. cap. 2. Then it was provided by 34 Edw. IH. cap. I. that one lord, and three or four of the mol worthy men in the county, with forme learned in the law, fhould be made juflices in every county. The number was afterwards reftrained frt to fix and then to eight, it every county, by 12 Ric. II. cap. 10. and 14 Rec. II. cap. 11. But their number has greatly increafed fence their firft inftitution. As to their qualifications, the statutes jut cited direct them to be of the bet reputation and mont worthy men in the county; and the ftatute 13 Rec. 11. cap. 7. orders them to be of the molt fufficient knights, efquires, and gentlemen of the law ; and by the 2 Hen. V.ftat. 1. cap. 4 and tat. 2. cap. I. they mut be refident in their feveral coonties. And by 18 Hen . VI. cap. 11. no juftice was ta be put in commifion, if he had not lands to the value of 201 . per annam. It is nov enacted by 5 Geo . Il. cap. 11. that every justice foal have 1001 . for annam clear of all deductions; of which he mut make oath by 18 Geo. II. cap. 20. And if he ats without foch qualification, he fall forfeit tool. It is aifo provided by 5 Geo . II. that no practifing attorney, folicitor, or proctor, hall be capable of acting as a juftice of the peace.

Fusticks of Peace avithin Libersics, are justices of the peace who have the fame authority in cities or other corporate towns as the others have in counties; and their power is the fame; only that thee have the allie of ale and beer, wood and vieiuals, \&c. Juitices of cities and corporations are not within the qualification act, 5 Geo. JI. cap. 18.

Fountain of Justice, one of the characters or attnLutes of the Lino. See Prrrogsitive.

By the fountain of jultice the aw docs not mean the

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Infice. author or o ginal, but only the riflributor. Juftice is not derived Erom the king, as from his free gifi; , but he is the fieward of the public, to difipemic it to whom it is due. He is not the fpring, but the refervoir; from whence right and equity are conducted, by a thoufand channels, to every individual. The original power of jurdicature, by the fundamental principles of fociety, is lodred in the fociety at large: but as it would be impracticable to renader complete jutlice to every individual, by the people in their collective capacity, therefore every nation has committed that power to celtain felect magillrates, who with more eafe and expedition can hear and determine complaints: and in England this authority las immetrurially been exercifed by the ling or his fubflitutes. He tiserefore has alone the ight of ereaing courts of judicature : for though the conditution of the kingdon lath intrufed him with the whole executive power of the laws, it is impofible, as v:ell as improper, that he flould perfonally carry into cxecution this great and extenfive trull : it is con:cquently recefiary that courts fhould be crected, to affift hims in executing this power; and equally necefiary, that, if erected, they thould be erected by his authonity. And hence it is, that all jurifdictions of courts are either mediately or mmediately derived from the crown; their procecuings run generally in the king's name, they pafs under his feal, and are executed by his officers.

It is probable, and almof certain, that in very early times, belore our conllitution arrived at its full perfection, our kings in perfon often heard and determined caufes between party and party. But at prefent, by the long and uniform ufage of many ages, our hings have delegated their whole judicial power to the judges of their feveral courts; which are the grand depofitory of the fundamental laws of the kingdon, and have gained a known and ftated jurifdiction, regulated by certain and eftablinhed rules, which the crown itfelf cannot now alter but by act of parliament. And in order to maintain both the digrity and indeperidence of the judges in the fuperior courts, it is enacted by the ftatute ${ }_{1} 3$ IV. III.c. 2. that their commiffions fhall be made, not, as formerly, durance beneplacito, but quamdius bene fe gefferint, and their \{alar:es afcertained and eftablifhed; but that it may he lawful to remove them on the addrefs of both lies of parliament. And now, by the noble improvements of that law in the fatuie of I Geo. 111. c. 23. enacted at the earneft recommendation of the king himfelf from the throne, the judges are continued in their offices during their good behaviour, notwithltanding any demife of the crown (which was forme ly held immediately to vacate their feats), and their fu!l falaries are abfolutely fecured to them during the continuance of their commilions; his majelly having been pleafid to declare, that "he looked upon the independence and uprightnefs of the judges, as effential to the impartial adminilltration of juftice; as one of the beft fecurities of the rights and liberties of his fubjects; and as moit conducive to the honour of the "rown."

In criminal proceedings or profecutions for offences, it would ftill be a higher abfurdity, if the king purfonally fat in judgment ; becaufe in regard to thefe he appears in another capacity, that of profecutor. All offences are either againt the king's peace or his crown and dignity; and are fo laid in every indict-
ment. For though in their Jnfequences they gene- Jutice. rally feem (except in the cafe of treafon aind a very few othirs) to be rather offences againlt the kingdom than the king ; yet as the public, which is an inviible body, has delegated all its power and righte, with regard to the execution of the laws, to one vifible magilrate, all affronts to that powcr, and breaches of thole rights, are immediately offerces agaime him, to whom they are fo delegated by the public. He is therefore the proper perion to próecu'e for all public offences and breaches of the peace, being the perfon injured in the eye of the law. And this notion was carried fo far in the old Gothic conflitution (wherein the king was bound by his coronation oath to conferve the peace), that in cale of any forcible injury offered to the perfon of a fellow fubject, the ofiender was acculed of a Lind of perjury, in having violated the king's coronation cath; dicelatur fregife juramentum regis juratum. And hence alfo arifes another branch of the prerogative, that of pardoning offences; for it is reafonable, that he only who is injured thould have the power of forgiving. See Pardon.

In this diftinct and feparate exiftence of the julicial power, in a peculiar budy of men, nominated indecd, but not removisble at pleafure, by the crown, confilis one main prefervative of the public liberty; which cannot fubbit long in any flate, unlefs the adminiftration of common juftice be in fome degree leparated buth from the legillative and allo from the exccutive power. Were it joined with the legifative, the life, liberty, and property of the fobject would be in the hands of arbitrary judges, whofe diecifions would be then regulated only by their own spinions, and not by any fundamental principles of law; which, though legilators may de part from, yet judges are bound to obferve. Were it joined with the extcutive, this union might foon be an overbalance for the legilative. For which rcafon, by the ftatute of 16 Car I. c. 10 . which abolihed the court of flar-chamber, effectual care is taken to remove all judicial power out of the hands of the king's privy-council ; who, as then was erident from recent inftances, niight foon be inclined to pronounce that for law which was moft agreeable to the priuce or his officers. Nuthing therefore is more to be avoided in a free comlitution, than uniting the provinces of a judye and a miniller of ftate, Anioi indeed, that the abfolute power, claimed and exercifed in a neighbouring nation, is more tolerable than that of the ealtern empircs, is in a great meafure owing to their having velled the judicial power in their parliaments; a body fcparate and dillinct from both the legillative and executive: an ${ }^{\text {' }}$ if ever that nation recovers its former liberty, it will owe it to the efforts of thofe affemblies. In Turkey, where every thing is centered in the fultan or his miniters, defpotic power is in its merioian, and wears a more dreadful afpect.

A courequence of this prerogative is the legal ubiquity of the king. His majefty, in the eye of the law, is always prefent in all his courts, though he cannot perfonally diftribute juffice. His judges are the neirror by which the king's image is reilected. It is the regal office, and not the royal perfon, that is always prefent in court, always ready to undertake profecutions or pronounce judgement, for the benefit and protection of the fubject. And from this ubiquity it follows, that

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the king can neper be nowit ; for a nonfuit is the delertiun of the hit or aition by lhe non-appearance of the plaintiff in court. For the fame reaton alfo, in the ferns of legal proceelings, the king is not faid to appear by his attorncy, as otlier men do; for he always appears, in coniemplatiors of law, in his own proper perfon.

From the fame origival, of the king's being the fountain of juftice, we may alio deduce the prerogative of iffuing proclamations, which is velted in the king alone. See Proclamation.

Justice Seat. See Forrst Courts.
justicia, malabar nut; a genus of plants belonging to the diandria clats; and in the natural method ranking under the 40 h order, Perfonatice. See Eotany Index.
JUSTICIAR, in the old Englifh laws, an officer inflituted by William the Conqueror, as the chief officer of thate, who principaily determined in all cafes civil and criminal. He was called in Latin Capstalis ${ }_{y}$ uficiurius totios Anglice. For Justictar ia Scotland, fee Law Index.

Justicliary, or Court of Fusticharr, in Scotland. See Law Index.
JUSTIFICATION, in Lax, figniliss a maintaining or thowing a fufficient realon, in court why the defendant did what he is called to anfwer. Pleas in jultibication mult fet ferth fome fpecial mater: thus on being fued for a trefpafs, a pertion may jultify it by proving, that the land is his own freehold; that he entered a houle in order to apprehend a felon; or by vintue of a warrant, to levy a foriciture, or in order to take a diftefs; and in an affault, that he did it out of necelitity.
Jusrification, in Theology, that ad of grace which renders a man juft in the fight of God, and worthy of eternal happoinefs. See Theology.

The Romanifts and Reformed are extremely divided about the doctrine of juftification; the latter contendi:ng for jullification by faith alone, and the former by good works.

JUSTIN, a celebrated hinlorian, lived, according to the moft probable opinion, in the fecond century, under the reign of Antoninus Pius. He wrote, in elegant Latin, an abridzement of the hifory of Trogus Pompeias: compreiending the attons of almolt all nations, from Ninus the founder of the Alfyrian empire to the emperor Augutus. The original work, to the regret of the learned, is loft : this abridgement, being written ir a polite and elegant ftyle, was probably the reafon why that age neglected the original. The belt editions of Jutin are, ad ufurn Dolphini, in 4to; and cum notis eariorum et Gronovii, in 8 vo.

Jus?is, St, commonly called ${ }^{\prime}$ flin Martyr, one of the earliett and mutt learned writers of the eaftern church, was born at Neapoli, the ancient Sechem of Paleftine. His father Prifcus, a Gentile Greek, brought hinn up in his own religion, and had him educated in all the Grecian learning. To complete his fudies he travelled to Egypt; and followed the feat of Plato. But one day walking by the fea fide, wrapt in contemplation, he was met by a grave perion of a venerable afpect ; who, falling into difourfe with him, turned the converfation by degrees from the excellence of Platonifm to the fuperior perfeation of Chrillianity: and reafoned to well,
as to raife in him an ardent curiofity to ing nire ints the Juntinas merits of that religion; in conlequence of which inquiry he was converted about the year 132 . O: his em. Junniani. bracing that religion, he quitted neither the profellion nor the habit of a philofopleer : but a perfrcution breaking out under Antorinus, he compofed in dipology for the Chriflians; and afterwards pree ented another to the emperor Meatcus Aurelius, in which he vindicated the innocence and hotimefs of the Chrilian reli, ion again? Crefcens a Cynic philofapher, and other caluminators. He did honour to Chrillianity by his lea:ning and the purity of his manners; and fuffered martyrdorn in 167. Befides his two Apologies, there are till extant his Dialogue with Trypho, a Jew; two tieatifes addreficd to the Gentiles, and another on the unity of God. Other works are alfo alcribed to him. The bell editions of St Juflin are thofe of Robert Stephens, in 1551 and 1571, in Greek and Latin; that of Morel, in Greek and Latin, in 1656 ; and that of Doa Prudentius Marandus. a learned Benedictine, in 1742 in folio.
JUSTINIAN I. fon of Juftin the elder, was made Ceefar and Augullus in 527 , and foon after emperor. He conquered the Perfians by Belifarius his general, and exterminated the Vandals; regained Africa; fubdued the Goths in Italy; defeated the Noors; and rellured the Roman empire to its prinative glory. See (Hiftory of) Constavicivople, $\mathrm{N}^{\prime \prime} 93-97$. and Ir.L.Y, $\mathrm{N}^{\dot{o}}{ }_{12}, \& c$.

The empire being now in the full enjoyment of a profound peace and tranquillity, Jufiniain made the beft ufe of it, by collecting the im:nenfe variety and number of the Roman laws, into one body. To this end, he felected ten of the molt able lawyers in the empire ; who, revifing the Gregorian, Theodofian, and Hermogenian codes, compiled one body, calted Codex Yufinianus. This may be called the fatute law, as confiliting of the refcripts of the emperors. But the reduction of the other part was a much more difficult talk: it was made up of the decifions of the judges and other magiftrates, together with the authoritative opinions of the moll eminent lawyers; all which lay leattered, without any order, in no letis than 2000 volumes and upwards. Thefe were reduced to the number of 50 ; but ten years were fpent in the reduction. However, the defign was completed in the year 553 , and the name of Digefts or Pandects given to it. Belides thefe, for the ule chielly of young itudents in the law, to facilitate that Itudy, Juftinian ordered four books of inflitutes to be drawn up, containing an abltract or abridgement of the text of all the laws: and, lafly, the laws of modern date, pofterior to that of the former, were thrown into one volume in the year $5+1$, called the Novelle, or New Code.

This emperor died in the year 565 , esed $\$_{3}$, in the 39th of his reign, after having built a great number of churches; particularly the famous Sancta Sophia at Conftantinople, which is effeemed a malferpiect of architecture.

JUSTINIANI, Se Laurexce, the firt patriarch of Venice, was born there of a noble family in 1,881 . He died in 1485; he left feveral relighins works, whicl2 were printed together at Lyons in 1568 , in one volume folio, with his life prefixed by his nephew. Clement VII. beatified him in 1524, and lic was catonized by Alexander VIII. in 1690.

Juspisishi,

Juâinizif Justininert, Bernard, was born at Venice in 1408. Juve: 1 .

He obtained the fenator's robe at the age of 19 , ferved the republic in feveral embaflies, and was elected pro- curator of St Mark in 1474. He was a learned man, and wrote the Hiftory of Venice, with fome other works of confiderable merit ; and died in $149^{8}$.
Iustinfani, Augufin, bifhop of Nebbio, one of the moft learned men of his time, was defcended from a branch of the fame noble family with the two foregoing; and was born at Genoa in $\mathbf{1 4 8 0}$. He affifted at the fifth council of Lateran, where he oppofed fome articles of the concordat between France and the court of Rome. Francis I. of France made him his almoner: and he was for five years regius profefior of Hebrew at Paris. He returned to Genoa in 1522, where he difcharged all the dutics of a good prelate; and learning and piety flourihed in his diocefe. He perilhed at fea in his pafage from Genoa to Nebbio, in I536. He compofed feveral pieces; the moft confiderable of which is, Pfalterium Hebraum, Gracum, Arabicum, et Chaldeum, cum tribus Latinis interpretationibns et glofis. This was the firft pfalter of the kind printed; and there is alfo afcribed to the fame prelate a tranflation of Maimonides' More Nevochim.

JUSTNESS, the exa\&nefs or regularity of any thing.

Juftnefs is chiefly ufed in feeaking of thought, language, and fentiments. The juftuefs of a thought contifls in a certain precifion or accuracy, by which every part of it is perfecilly true, and pertinent to the fubject. Jutnefs of language confifts in ufing proper and well chofen terms; in not faying either too much or too little. M. de Mere, who has written on juftnefs of mind, diftinguifhes two kinds of juftnefs; the one arifing from talte and genius, the other from good fenfe or right reafon. There are no certain rules to be laid down for the former, viz. to fhow the beauty and exactnefs in the turn or choice of a thought ; the latter confifts in the juft relation which things have to one another.

JUTES, the ancient inhabitants of Jutland in Denmark.

JUTLAND, a large peninfula, which makes the principal part of the kingdom of Denmark. It is bounded on the fouth eaft by the duchy of Holttein, and is furrounded on the other fides by the German ocean and the Baltic fea. It is about tio miles in length from north to fouth, and 50 in breadth from eaff to welt. The air is very cold, but wholefome; and the foil is fertile in corn and paftures, which feed a great number of beeves, that are fent to Germany, Holland, and elfewhere. This was anciently called the Cimbrian Cherfonefies, and is fuppofed to be the country from whence the Saxons came into England. It is divided into two parts, called North and South Gutland: the latter is the duchy of Slefwick, and lies between North Jutland and the duchy of Holltein; and the duke of that name is in poffefion of part of it, whofe capital town is Gottorp, for which reafon the fovercign is called the duke of Holfein Gottorp.

JUVENAL, Drecus Juxius, the celebrated Roman fatirin, was born about the beginning of the emperev Cla:dius's reign, at Aquinum in Campania. His father was probably a freed man, who, being rich, gave hine a liberal education, and, agreeably to the
tafte of the times, bred him up to eloguence; in which he made a great progrefs, firft under Fronto the grammarian, and afterwards, as is generally conjectured, under Quintilian ; atter which he attended the bar, and made a diflinguithed figure there for many years by his eloquence. In the practice of this profeffion he had improved his fortune and interclt at Rome before he turned his thoughts to poetry, the very flyle of which, in his fatires, fpeaks a long habit of declamation; fubactum redolent declamatorem, fay the critics. It is faid he was above 40 years of age when he recited his firf effay to a fmall audience of bis friends; but being encouraged by their applaufe, he ventured a greater publication: which reaching the ears of Paris, Domitian's favourite at that time, though but a pantomime player, whom our fatirif had feverely infulted, that minion made his complaint to the emperor ; who fent him thereupon into banifliment, under pretence of giving him the command of a cohort in the army, which was quartered at Pentapolis, a city upon the frontiers of Egypt and Libya.

After Domitian's death, our fatirit returned to Rome, fufficiently cautioned not only againft attacking the characters of thofe in power, under arbitrary princes, but againft all perfonal reflections upon the great men then living; and therefore he thus wifely concludes the debate he is fuppofed to have maintained for a while with a friend on this head, in the firft fatire, which feems to be the firt that he wrote after his baniflament:

## Experiar quid concedatur in illos

Quorum Flaminia tegitur cinis atque Latina.
"I will try what liberties I may be allowed with thefe whofe alles lie under the Flaminian and Latin ways," along each fide of which the Romans of the firft quality ufed to be buried. -It is believed that he lived till the reign of Adrian in 128 . There are flill extant 16 of his fatires, in which he difcovers great wit, firength, and keennefs, in his language : but his fyle is not perfectly natural; and the obfcenities with which thefe fatires were filled render the reading of them dangerous to youth.

JUVENCUS, Caius Vecticus Aquilinus, one of the firft of the Chriflian poets, was born of an illufrious family in Spain. About the year 3 zo he put the life of Jefus Chrift into Latin verfe, of which he compofed four books. In this work he followed clofely the text of the evangelifs : but his verfes are written in a bad tafte, and in bad Latin.
JUVENTAS, in Mythology, the goddefs who prefided over youth among the Romans. This goddefs was long honoured in the Capitol, where Servius Tullius erected her flatue. Near the chapel of Minerva there was the altar of Juventas, and upon this altar a picture of Proferpine. The Greeks called the goddefs of youth Hebe; but it has been generally fuppofed that this was not the fame with the Roman fuventas.
JUXON, Dr Wilfinm, archbifhop of Canterbury, was born at Chichefter in 1682. He was educated at Merchant Taylors ichool, and from thence elected into St John's college, Oxford, of which he became prefident. King Charles I. made him bithop of Londow; and in 1635 promoted him to the poft of kerd high

## J U X

 $[41$ treafurer of England. The whole nation, and efpecially the nobility, were greatly offiended at this high office being given to a clergyman; but te behaved fo well in the adminiftration, as foon put a fop to all the clamour raifed againt him. This place he held no longer than the $17^{\text {th }}$ of May 1641 , whan he prudently refigned the faff, to avoid the floma which then threatened the court and the clergy. In the following February, an act paficd depriving the hifhops of their votes in parliament, and incapacitating them from any temporal jurildiction. In thefe leading fleps, as well as the total abolition of the epifcopal order which followed, he was involved with his brethren; but neither as a bifhop nor as treafurer was a fingle accufation brought againht him in the long parliament. During the civil wars, lie refided at his palace at Fulham, where his meek, inoffenfive, and genteel behaviour, notwithitanding his remaining fleady in his loyalty to the king, procured him the sifits of the principal perfons of the oppofite party, and refpect from all. In 1648 , he attended his majelly at the treaty in the ine of Wight; and by his particular defire, waited upon him at Cotton houle, Weftminfter, the day after the commencement of his trial ; daring which he frequently vifited him in the office of a fpiritual father; and his majefty declared he was the greatef comfort to him in that affictive fituation. He likewife attended his majefty on the feaffold, where the king taking off his cloak and George, gave him the latter: after the execution, our pious bilhop took care of the body, which he accompanied to the royal chapel at Windfor, and flood ready with the com-mon-prayer book in his hands to perform the laft ceremony for the king; but was prevented by Colonel Whicheot, governor of the caftle. He continued in the quiet polieffion of Fulham palace till the enfuing year $16+9$, when he was deprived, having been fpared longer than any of his brethren. He then retired to his own eftate in Gloucefterhire, where he lived in privacy till the Reftoration, when he was prefented to the fée of Canterbury; and in the little time be en-$15] \quad \mathrm{J} \mathrm{N}$
joyed it, expended in buildings and reparations at Jartaporio
Lambeth palace and Croyden houfé near 15,0001 . He iidn died in 1663 ; having bequeathed joc0l. to St John's Jyrx college, and to other charitable ufes fiear 5000 . He Jyrx. publifhed a Sermon on Luke xviii. 31, and Some Confiderations upon the AEt of Uniformity.

JUXTAPOSITION, is ufed by philofophers to denote that fpecies of growth which is performed by the appofition of new matter to the furface or outfide of old. In which fenfe it ftands oppofed to ineusfulception; where the growth of a body is performed by the reception of a juice within it diffufed through its canals.

IVY. See Hedera, Botany Inder.
IXIA, a genus of plants belonging to the triandria clafs, and in the natural method ranking under the 6 th order, Enfata. See Botany Indes.

IXION, in fabulous hiltony, king of the Lapithé, married Dia the daughter of Deionius, to whom he refufed to give the cuftumary nuptial prefents. Deionitis in revenge took from him his horfes: when Ixion, diffembling his refentment, invited his father-in-law to a fealt, and made him fall through a trap door into a burning furnace, in which he was immediately confumed. Ision being afterwards flung with remorfe for his cruelty, ran mad ; on which Jupiter, in compaffion, not only forgave him, but took him up into heaven, where he had the impiety to endeavour to corrupt Juno. Jupiter, to be the better affured of his guilt, formed as cloud in the refemblance of the goddefs, upon which Ivion begat the centaurs: but boafting of his happinefs, Jove hurled him down to Tartarus, where he lies fixed on a wheel encompaffed with ferpents, which turns without ceafing.

IXORA, a genus of plants belonging to the tetrandria clafs; and in the natural method ranking under the $47^{\text {th }}$ order, Stellata.

JYNX, a genus of birds belonging to the order of pica. See Ornithology Index.

K,the tenth letter, and feventh conionant, of our alphabet ; being formed by the voice, by a guttural expreffion of the breath through the mouth, together with a depreflion of the lower jaw and opening of the teeth.

Its lound is much the fame with that of the hard $c$, or $q u$ : and it is ufed, for the moft part, only before $e$, $i$, and $a$, in the beginning of words; as ken, kill, know, \&c. It ufed formerly to be always joined with $c$ at the end of words, but is at prefent very properly omitted, at leaft in words derived from the Latin : thus, for publick, mufick, \&xc. we fay, public, mufic, \&c. However, in monofyllables, it is flill retained, as jack, block, mack, \&c.
$K^{\prime}$ is borrowed from the Greek kappa; and was but
little ufed among the Latins: Prifian looked on it as a fuperfluous letter; and fays, it was never to be ufed except in words borrowed from the Greek. Daufquius, after Sallunt, obferves, that it was unknown to the ancient Romans.-Indeed we feldons find it in any Latin authors, excepting in the word kalende, where it fometimes flands in lieu of a $c$.-Carthage, however, is frequently fpelt on medals with a $K$ : salvis auc. et caes fel. Kart. and fometimes the letter $K$ alone ftood for Carthase.-M. Berger lias obferved, that a capital $K$, on the reverfe of the medals of the emperors of Conftantinople, fignifed Komfantinus; and on the Greek medals he will have it to lignify KOLAH EYTIA, "Coelefyria."

Quintilian tells us, that in his time fome people hat?

## K A B [ 41́ 〕 K A. it

$\nless$-ats a mifrinen notion, that wherever the letter $c$ and $n$ ocbuan curred at the begiming of a word, $k$ ought to be uted !
Kahuiv. qqu:-

Lipfius obferves, that $K$ was a fligma anciently
mathed on the forcheads of criminals with a red.hot iren.
'lle letter $K$ has variows fignifications in old charters and dipiomas; for inllance, KR . Atood for chorus KR. C. for cara civitas. KRM, for carmen, KR. AM1. N. carus amicus mofer, KS. chaos, KT'. capite tonfies, Sic.

The French never ufe the letter $k$ excepting in a few terms of art and proper names borrowed from other countries. Ablancourt, in his dialogue of the letters, Lrings in $k$ complaining, that he has been often in a fair way to be kanifhed out of the French alphabet, and confined to the countries of the north.
$K$ is alfo a numeral letter, fignifying 250 , according to the verfe;

## K quogue ducentos et quinquaginta toncbit.

When it had a ftroke at top, $\widetilde{\mathrm{K}}$, it food for 250,000 .
$K$ on the French coinage denotes money coined at Bourdeaux.

KAARTA, a kingdom in Africa, through which Mr Park paffed from the Gambia to the Niger. According to him, the country condifts of fandy plains and rocky hills, the level part of it being the molt extenfive. It is inhabited by negroes, many of whom retain all their ancient fuperftitions, although converted to the religion of Mahomet. White men, he informes us, are 1lrangers in the kingdom of Kaarta; and Mr Park's appearance had nearly the fame effect upon them which ignorant people in our own country attribute to ghoits. Mr Park was well received by the king at Kemmoo, who at the fame time infurned him with ingenuous frankiefs, that he could not protect him, being then at war with the king of Bambarra, but he gave him a \&ruard to Jarra, the frontier town of the neighbouring Kingdom of Ludamar. From our author's account of this war, it feems to be bighly impolitic to liberate the negrocs from flavery till civilization and Chriftianity be introduced into Africa. Kemmoo the metropolis of this kingdom, lies in N. Lat. 14.15. WV. Long. 7. 20.

KAA'I's-BA^N, a town of New York, on the weft bank of Hudfon's river, feven miles fouth of Kat's-Kill.

KAAT's-KILL, a townfhip of New York, on the welt bank of Hudfon's river; five miles fouth of Hudfon city, and 125 north of New York. It contained 164.5 citizens in 1795, of whom 345 were electors, and 305 flaves.

Kaat'smill Mountains, a majeftic ridge of mountains in the vicinity of the above townhip, which are the firt part of the Alleghany mountains.

KABA. See Mecca.
KABOBIQUAS, a nation in the fouth of Aírica, who are reported never to have feen a white man till the year 1785 , when they were vifited by M. Vaillant. On his approach, they felt his hair, hands, fect, and almort every part of his body. His beard aftonilhed them, and they fuppofed that his whole body was com vered with liair. The children were greatiy alarmed, but prefents of fugareandy foon reconciled thens. The chief flowed him every mark of refpect, whom he re-
prefents as a majefic fogur, with a long mantic nade of four jackal thiss. Thee bair of the people is very thort, curled, and urnanmented with fnatl copper Luttons. Although they go almon maked, the females ate remarkably clatte, and very referved. Theeir only ormaments are glafs beads. Rf. Yaillant afferes us that he never faw a tation fo difinteresled, as they vied with cach other in generofity. Many of them gave away gratuitoully, and without receiving any thing in seturn, firt of their lierds and focks. They are alfo of a courageous and nuatial character, maling ufe of poifoned arrows and lances with long points. 'Tluey are extrmely obedient to their chicf, whofe will is a law. They believe in a fupreme being who governs all things, and who exifts far beyond the flars. They have no idea of a future exiflence, or of rewards and punilhments, and have neither worthip, facrifices, ceremonics nor prielts. Their country lies between $16^{\circ} 25^{\prime}$ and and $19^{\circ} 25^{\prime}$ calt of Paris, and between $23^{\circ}$ and $25^{\circ} \mathrm{S}$. Lat.

K ADESH, KADESH-birnea, or EN-mishpat, in Sincient Geography, a city celebrated for feveral events. At Kadefh, Miriam the fitter of Mofes died Numb. xx. 1.). Here it was that Nofes and Aaron, Abowing a diftrult in God's power when they fnote the rock at the waters of 1trife, were condemned to die, without the confolation of entering the promifed land (Numb. axvii. 14.). 'The king of Kdefh was one of the princes killed by Jomua (xii. 22.). This city was given to the tribe of Judah, and was fituated about eight leagues from Hebron to the fouth.

Mr Wells is of opinion, that this Kadefh, which was fituated in the wildernels of Zin, was a different place from Kadeth-barnea in the wildernefs of Paran.

KADMONAEI, or Cadmonar, in Ancient Geography, a people of Paletline, faid to dwell at the foot of Mlount Hermon; which lies eaft, and is the reafon of the appellation, with refpect io Libanus, Pincenicia, and the north parts of Paleftine. Called alfo Heveri (Mofes).

K FEMPEERIA, zEDOARy, a genus of plants belonging to the monandria clafs; and in the natural method ranking under the 8 th order, Scitominere. See Borany Index.

KAJUAGA, a kingdom of Africa, bounded on the fouth-eaft and fouth by Bamhouk; on the weft by Bondon and Foota Torra; and on the north by the river Senegal. The air and climate are more pure and healthy than at any of the fettlements towards the coaft; the face of the country is pleafingly diverfified with halls and valleys, and the windings of the river Seneral make the feenery on its banks extremely beautiful. The inhabitants are called Serawoollies, who have a jet black complexion, in which refpect they are not to be rliftinguifhed from the Jalofis. The government is munrchical, and the regal authority, according to Mr Park, is fufficiently formidable. The people are deemed tolerably fair-and jut in their dealings, and indefatigable in their exertions to acquire wealth.

Their language abounds with gutturals, and therefore not fo harmonious as thit which is fjoken by the Foulahs; but it is worlls a traveller's while to obtain a hnt ledere of it, as it is generally underftood in many kingdoms of Africa. Joag is the frontier town, en-

## K A L

tering from Pifania, furrounded by a high wall, and is fuppofed to contain 2000 inhabitants. It is fituated in N. Lat. 14. 25. W. Long. 9. 46.

KAINSI, the Hottentot name of a fpecies of antelope, denominated by the Dutch, on account of its agility, llip-/pringer. It is of a yellowith-gray colour, and of the fize of a kid of a year old. See Capra, Massmalia Index.

KALENDAR, a difribution of time, accommodated to the ufes of life; or a table or almanack, containing the order of days, wecks, months, feafts, \&ic. happening throughout the year. See Trme, Moxth, Year, \&zc.

It is called kaleudar, from the word kalendix, anciently wrote in large characters at the head of each month. See Kalisids.
The days in kalendars were originally divided into oftoades, or eights; but afterwards, in imitation of the Jews, into heldamades, or fevens; which cullon, Sealiger oblerves, was not introduced among tbe Romans till after the time of Theodofus.

There are divers kalendars, according to the different forms of the year and diftributions of time eftablifhed in different countries. Hence the Roman, the Jewifh, the Perlian, the Julian, the Gregorian, \&c. kalendars.

The ancient Roman kalendar is given by Riccioles, Struvius, Danet, and others; by which we fee the order and number of the Roman holidays and work days.
The three Chriftian kalendars are given by Wolfus in his Elements of Chronology.

The Jewilh kalendar was fixed by Rabbi Hillel about the year 360 , from which time the days of their year may be reduced to thofe of the Julian kalendar.

Yhe Roman Kalendar owed its origin to Romulus; Sut it has undergone various reformations fince his time. That legiflator diffributed time into feveral periods, for the ufe of the people under his command: but as he was much better verfed in matters of war than of aftronomy, he only divided the year into ten months, making it begin in the fpring, on the firf of March; imagining the fen made his courfe through all the feafons in 304 days.

Romulus's kalendar was reformed by Numa, who added two months more, January and February; placing them before Mareh : fo that his year confified of 355 days, and began on the firf of January. He chofe, however, in imitation of the Greeks, to make an intercalation of 45 days; which he divided into 2 wo parts; intercalating a month of 22 days at the end of each iwo years; and at the end of each two years more another of 23 days; which month, thus interpofed, be called BIarcedonius, or the intercalay February.

But thefe intercalations being ill offerved by the pontifls, in whom Numa committed the care of them, occafioned great dilorders in the conflitution of the year; which Cerfar, as fovereign pontiff, adeavoured to remedy. To this end, he made choice of Sofgenes, a clebrated aftronomer of thofe tines; who found, that the difpenfation of time in the kalendar rould never be fettled on any fure froting without having regard to the annual courfe of the fun. Accordingly, as the fun's yearly courfe is performed in 365 days fix hours, he reduced the year to the fame number of days : the year of this correction of the kalen-

Yol. Xl. Part 11.
dar was a year of confufion; they being obliged, it Katendur. order to fwallow un the 65 days that had been im prudently added, and which occafioned the confufion, to add two months befides the Marcedonius, which chanced to fall out that yeat; fo that his year confilted of 15 months, or 445 days. This retornation was made in the year of Rome y08, 72 or 43 years before Chrift.

The Roman kalendar, called alfo Yulian kalendar, from its rcformer Julius, is difpofed into quadriemial periods; whereof the firt three jears, which he called communes, confilt of 365 days; and the fourth, bificxilic, of 366 ; by reafon of the fiy hours, which in four years mike a day or fomerwat lefs, for in 134 years an intescalary day is to be retrenched. On this account it was, that Pope Gregory XIII. with the advice of Clavius and Ciaconius, appointed, that the hundredth year of each century flould have no bifextilc, excepting in each fourth century: that is, a fubtraction is made of three biffextile days in the face of four centuries; by reafon of the it minutes wanting in the fix hours whereof the biffextile contits.

The reformation of the kalendar, or the new $\beta_{y} / \mathrm{l}$ as we call i., commenced on the $\psi^{\text {th }}$ of OEtober 1582 , when ten days were thrown out at once, fo many haring been introduced into the computation finse the time of the council of Nice in 325 , by the defect of is minutes.

Yulion Chrifion Kidendar, is that wherein the daw: of the week are determined by the letters $A, B, C$. D, E, F, G, by means of the folar cycle; and the new: and full moons, efpecially the patcha! full moon, witls the fealt of Eater, and the nther moveable fealls depending thereon, byeans of golden numbers, righely difpofed through the Julian year. See Crcle, and Goids.v Number.

In this kaiendar, the vernal equinox is fuppofed to be fixed to the 21 it day of March; and the cycie of 19 years, or the golden numbers, conilantly to incirate the places of the nerw and full moons; yet buth are erroneous. And hence arofe a very great irrcgularity in the time of Eafter. To thow this error the more appparently, let us apply it to the yeat 1715 . In this year, then, the vernal equinox falls on the roth of MFarch ; and therefore concs too early by in deys. The pafchal full moon falls on the yth of $A_{\text {pril }}$; and therefore too late, with regard to the cycle, by threc day. Eafter, therefore, which fhould liave been on the 10th of April, was that year on the 17 th. The error lise lies only in the metemptofis, or poftpofition of the moon, through the defect of the lunar cycle. If the full moon had fallen on the 1 1 th of March, Eatler soould have fallen on the $13^{\text {th }}$ of March; and therefore the error arifing from the articipation of the efluinox would have exccedingly augnented that arifing from the poftpofition. Thefe errors, in courfe of time, were fo nulutiplied, that the kalendar no longer eshibiecl any regular Eafter. Pope Gregory XIII. thererse, hy tice advice of Aloyfus I.ilius, in 588, threw 10 days out of the month of October, to rellore the equinn to its place, viz. the 2t? of March; and thus introduced the form of the Grecrorian year, with fuch a provition as that the equinox should be conftantly hept to the 21ft of March. The new monns and full moons, by advice of the fame Lilius, were not to be indicated by golden

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K2にれば．
dil！！setzined in Ariten without this corrediun li，was there was a diference of I days between our time and that of cur neighbou：s．But by 24 Geo．11．c．23．the Gregorian computation is eftablilied here，and accurd－ ly tock place in 1752.

Grggorion Kelendar，is that which，by means of epacts，rightly difpofed through the fereral months， determines the netv and full moons，and the time of Eafer，with the moveable feafis depending thereon，in the Gregorian year．
The Gregcrian kalendar，therefore，difiers from the Julian，both in the form of the year，and in that epachs are fublituted in lie：of golden numbers：fur the ufe and difpofition whereof，fee Epact．

Though the Gregorian kalendar be preferable to the Julim，yet it is not without its defects（perhaps， as Tycho Brahe and Caflini imagine，it is impoffible ever to brisg thie thing to a perffet juftnefs）．For，firft， The Gregorian intercalation does not hinder，but that the equinox fometimes fucceeds the 21 If of March as far as the 23 d ；and fometimes anticipates it，falling on the 19th；and tle full moon，which falls on the 20th of March，is fometimes the pafclal ；yet not fo account－ ed by the Gregorians．On the other hand，the Gre－ gotians account the full moon of the 22d of March the palchal；which yet falling before the equinox，is not pafchal．In the firll cafe，therefore，Eafter is celebrat－ ed in an irregular month；in the latter，there are two Eafters in the fame ecclefiafical year．In like manner， the cyclical computation being founded on mean full moons，which yet may precede or follow the tue ones by fome hours，the pafchal full moon may fall on Sa－ turday，which is yet referred by the cycle to Sunday： whence，in the frrlt cafe，Eatter is celebrated eight days later than it thould be；in the other，it is cele－ brated o：1 the rery day of the full moon，with the Jews and Quartodeciman heretics；contrary to the decree of the council of Nice．Scaliger and Calvifus thow other faalts in the Gregorian kalendar，arifing from the negligence and inadvertency of the authors；yet is this halendar adhered to by the Romans throughout Europe，\＆c．and ufed wherever the Roman breviary is ufd．

Reformed，or Corrected Kalendar，is that which， fetiing afide all appratuts of golden numbers，epacts， and dominical leters，determincs the equinox，with the pafchal full moon，and the moreable featts depending thereon，by allronomical computation，according to the Rudolphine Tables．

This kalendar was introduced among the Proteflant Hates of Germany in the year 1700 ，when in days were at once thrown out of the month of February；fo that in 1700 Fcbruary had but 18 days：by this means， the corrected Ayle agrees with the Gregorian．This alteration in the form of the year they admitted for a time；in e．pectation that，the real quantity of the tropical year being at length more accurately deter－ mined $L$ ：obfervation，the Romanits would agree with them on fome more convenient intercalation．

Conffuction of a Kiliendar，or Almanack．I．Com－ pute the fun＇s and moon＇s place for each day of the year；or take them from ephemerides．2．Find the dominical letter，and by means thereof diftribute the ka－
lendar into tweks．3．Compute the timico © Eanter，and Kalend thence fix the other moveable feats．4．Add the im－ moveable feafts，with the names of the martyrs．5．To every day add the fun＇s and maon＇s place，with the ri－ fing and fetting of each luminary；the length of day and night ；the crepufula，and the efpects of the planets． 6．Add in the proper places the chicf phafes of the moon， and the fun＇s entrance into the cardinal points；i．e．the folfices and equinoxes；together with the rining and the fetting，efpecially heliacal，of the planets and chief fixed fars．See Astrovony．

The duration of the crepufcula，or the end of the evening and beginning of the morring twilight，to－ gether with the fun＇s riting and fetting，and the length of days，may be transferred from the kalendars of one year into thofe of another；the differences in the fe． veral years being too frall to be of any confideration in civil life．

Hence it appears，that the confrubion of a kalendar has nothing in it of myftery or difficulty，if tables of the heavenly motions be at hand．

Some divide kalendars or almanacks into public an？ private，perfect and imperfect ；otlecrs into Heathen and Chrillian．

Public almanacks are thofe of a larger fize，ufually hung up for common or family ufe；private are thofe of a fmaller kind，to be carried about either in the hand， infcribed on a thaff，or in the pocket；ferfect，thofe which have the dominical letters as well as primes and fealls inferibed on them；imperfect，thole which have only the primes and immoveable feafts．Till about the fourth century，they all carry the mark $;$ of heathenilm； from that age to the feventh，they are generally divided between heathenifm and Chriftianity．

Almanacks are of fomewhat different compofition， fome containing more points，others fewer．The effen－ tial part is the kalendar of months and days，with the riling and feting of the fun，age of the moon，\＆c． To thefe arc added various parerga，afironomical，aftro－ logical，meteorological，chronological，and even politi－ cal，rural，medical，\＆c．as calculations and accounts of eclipfes，folar ingreffes，afpêts，and configurations of the heavenly bodies，lunations，heliocentrical and geo－ centrical motions of the planets，prognoftics of the weather，and predictions of other events，tables of the planetary motions，the tides，terms，intereft，twilight， equation，kings，\＆x．

Gelalean，or fellaliean Kalendas，is a correction of the Perfian kalendar，made by order of Sultan Gela－ leddan，in the 467 th year of the Hegira ；of Chrif 108 g ．

Kalendar，is ufed for the catalogue or fafli ain－ ciently kept in each church of the faints both univer－ fal and thofe particularly honoured in each church； with their bifhops，martyrs，\＆ic．Kalendars are not to be confounded with martyrologies；for each church had its peculiar kalendar，wherezs the marty：ologies regarded the whole church in general，containing the martyrs and confefiors of all the churches．From all the feveral kalendars were formed one martsrology：fo that martyrologies are pofferior to kalendars．

Kalespar，is alfo applied to divers other compo－ fitions refpeating the 12 months of the year．

In this fenfe，Spencer has given the hepherd＇s ka－ lendar；Evelyn and Miller the gardener＇s F：alendar，\＆\＆．

Kalesdar，

Falendar, is alo entended to an orderly table or enumeration of perfons or things.

Lord Bacon wifhes for a kalendar of doubts. A late writer has given a kalendar of the pcrfons who may inherit eftates in fee-fimple.

Kalendar, Kalendarium, originally denoted, among the Romans, a book containing an account of moneys at interef, which became duc on the kalends of January, the ufial time when the Roman ufurers let out iheir money.

KaLENDAR Months, the folar months, as they fland in the kalendar, riz. January 31 days, \&c.

Afronomical KALENDAR, an imfrument engraved upon copper plates, printed on paper, and palled on board, with a brafs fider which carries a hair, and thows by infpection the fun's meridian altitude, riglat afcenfion, declination, rifing, fetting, amplitude, \&c. to a greater exactnefs than our common globes will thow.

## Kalender of Prifoners. See Calendar.

Kalendar Brothers, a fort of devout fraternities, compofed of ecclefiaftics as well as laymen; whofe chief bufinefs was to procure mafies to be faid, and alms dif. tributed, for the fouls of fuch members as were deceafed. They were allo denominated kalend-brothers, becaufe they ufually met on the kalends of each month, though in fome places only once a quarter.

KALENDDARIUM FESTUM. The Chriftians retained much of the ceremony and wantonnefs of the kalends of January, which for many ages was held a feaft, and cclebrated by the clergy with great indecencies, under the names $f_{f}$ fum kalendarum, or hypodiaconorum, or fultorum, that is, "the feaft of fools :" fometimes alfo libertar decembrica. The people met maked in the church; and in a ludicrous way proceeded to the election of a mock pope, or bifhop, who exercifed a jurifdiction over them fuitable to the feftivity of the occafion. Fathers, councils, and popes, long laboured in vain to reftrain this licenfe, which prevailed at the clofe of the 15 th century.

## KALENDERS. Sce Calenders.

K.ALENDS, or Calexds, in the Roman chrono$\log y$, the firf day of every month. - The word is formed from $r x \lambda_{i s w}$ I call or proclaim; becaufe, before the publication of the Roman fafti, it was one of the offices of the ponifices to watch the appearance of the new moon, and give notice thereof to the rex facrificulus; upon which a facrifice being offered, the pontiff fummoned the peopie together in the Capitol, and there with a loud voice proclaimed the number of kalends, or the day whereon the nones would be; which he did by repeating this formula as often as there were dass of kalends, Calo Juno Novella. Whence the name calendee was given thereto, from calo, calare. This is the account given by Varro. Others derive the appellation hence, That the people being convened on this day, the pontifex called or proclaimed the feveral feafts or holidays in the month; a cuftom which continued no longer than the year of Rome 450 , when C. Flavitic, the curule wdile, ordered the falti or kakendar to be fet up in public places, that eversbody might know the differences o! times, and the return of the ferivals.

The kolends were reckoned backwards, or in a retrograde oider. Thus, $\because$. s. the firft of May being the kzends of May : the laft or the j2th of April was
tlie prodic kalendarum, or fecond of the kalends of May ; Enierds the 2 th of $\Lambda$ pril, the third of the lalends, or before the kalcuds; and to back to the 13 th, where the ides commence; which are likewife numberd invertedly to the fifth, where the nones begin; which are numbered after the fame manncr to the firf daj of the month, which is the kaleads of April. Sec IDEs, and Nones.

The rules of computation by kalends aze included in the following verfes:

> Prima dies menfis cujufque of dikia kalendre: Sen Maizes nonas, October, Jialius, et JIars; Quatuor at rcligui: liabei idus quilhbet ceto. Inde dies religuos omnes dic elfe kulendas; Quas retro numerates dices a menfe fequente.

To find the day of the kalends anfwering to any day of thee month we are in; fee how many days there are yet remaining of the month, and to that number add two : for example, fuppofe it the 22d day of April; it is then the roth of the kalends of May. For Apri! contains 30 days: and 22 taken from 30 , there remain 8 ; to which two being added, the fum is 10 . The reafo: of adding two is, becaule the lalt day of the month is called fecurdo kalentas, the latt but one tertio kalendas, \&c.

The Roman writers themfelves, are at a lo!s for the reafon of this abfurd and whimfical manner of computing the days of the month : yet it is fill kept us in the Roman chancery ; and by fome authors, out of a vain affectation of learning, preferred to the common, more natural, and eafy manner.

Kalesds are alfo ufed in church hifory to dencte conferences anciently held by the clergy of each deanry, on the firit day of every month, concerning their duty and conduet, efpecially in what related to the impofition of penance.

Kalends of January, in Roman antiquity, was a folemn feftival confecrated to Juno and Janus; wherein the Romans offered vows and facrifices to thofe deities, and exchanged prefents among themfelves as a token of friendhip.

It was only a melancholy day to debtors, who were then obliged to pay their interelts, \&c. Hence Horace calls it triles kalendice; Lib. I. Serm. Sat. 3.

KALI, the fpecife name of a plant which yicles the fubfance alfo called kali or alkali. See Sazsola.

KALISFI, a prowince of Lower Poland, with the title of a palatimate. It is bounded on the weft by the palatinate of Bofnia, on the eaft by that of Syrad, on the norih by Regal Pruffia, and on the fouth by Silefia. Kalith is the capital town.

Kalish, a town of Lower Poland, and capital of a palatinate of the fame name, where the Jefuits had a magnificent college. It is feated on tbe river l'rofna, in a morafa, which renders it difificult of accels. E. I.ong. 18. ©. N. Lat. 5 ~. 20.

KALMIA, a genus of plants, belonging to the decandria clafs, and in the natural method ranking under the 18 th order, Bicornes. See Botany Indes:

KALMUCS, a tribe of Tartars, called alfo E'uites, inhabiting the larger half of "that the Eiropicans call Iffern Tariary. Their torritory extends from he Cafpian fea, and the river $2^{\circ}$ aik or Ural, ia 72 degrees of longitude from Ferro, to Mount Alray, in 110 de. grees, and from the $f$ th to the 523 degree of north

Kainucs. jatituse; whence it may be computed about 1930 miles in length from weft to eaf, and in breadth from north to forth about 650 miles where broadeft. It is bourded on the north by Rufia and Siberia, from which it is feparated by a chain of mountains; on the eait by Mount Altay; on the fouth by the countries of Karazm and the two Bukharias, from which it is alfo feparated, partly by a chain of mountains and partly by fome rivers. See Tartary.

Of the Kalmuck Tartars the following curious account is given by Profeflor Pallas.- They are in general, fays he, of a middle fize, and it is even rare to fee among them a perlon that is tall; the women efpecialiy are of low flature, and have very agrecable features. Their limbs are neatly turned, and very few have any defects contrafted in infancy. Their education being left folely to nature, procures for them a well formed body and found conititution. The only defeet which is common among them is their having the thighs and legs fonen hat bent. A fat perfon is hardly ever to be met with ; the richent and mont ditinguilhed, though they lead a life fufficiently indolent, and enjoy abundiance of every thing they defire, are never excelfively corpulent. Their tkin is pretty fair, efpecially when yourg: but it is the cuftom of the lower fort to allow :heir male children to go guite naked both in the hea: of the fun and in the finoky atmolphere of their felt huts: the men too fleep naked, covered only with their drawers; and from thefe circumftances they acquire that yellowith orown colour which characterizes them. The women, on the contrary, have a very delicate complexion; among thofe of a certain rank are found fome with the moft beautiful faces, the whitenefs of which is fet off by the fine black of their hair ; and in this as well as in their features they perfectly refemble the figures in Chinefe paintings.

The phyfiognorny which dittinguibes the Kalmucs, is pretty generally known. Strangers are made to believe that it is frightfully deformed; and though indieed there are very ugly men to be found, yet in general their countenance has ain opennels in it that befpeaks a mild, a frank, and focial difpofition. In many it is of a roundih hape, and exceedingly agreeable; among the women fome would be thought beauties even in thofe European cities where the tafte is moft fcrupulous. The charateriftic features of a Kalmuc or Mongul countenance are the following: The interior angle of the eye is placed obliquely downwards towards the nofe, and is acute and flefhy; the eyebrows are black, narrow, and much arched; the nofe is of a ftrueture quite fingular, being generally flat and broken towards the foreliead; the cheek bone is high, the head and face very round; the eye is dark, the lips thick and Hehy, the chin fhort, and the teeth exceedingly white, continuing fo to old age; the ears are of an enormous fize, flanding out from the head. Thefe characters are more or lefs vifible in each individual ; but the perfon that poffeffes them all in the higheit degree is confidered as the mof beautifully formed.

Among all the Mongul nations, the men have much lefs beard than in our European countries, and among the Tartars it appears much later. The Kalmucs have pooft of it; and yet even with them the beard is very fcanty and thin, and few have much hair on any other past of the body.

Pcople that lead a paftoral life eujoy the bodily fen- Kaliaci fes in the greatef perfection. The halmucs find the fubtility of their ferfe of fmell wory ufful in their military expeditions, for by it they perceive at a diltance the fmoke of a fire or the fmell of a carrp; there are many of them who can tell by aprlying the nofe to the hole of a fox, os any other quadzupcd, it the animal be within or not. They hear at a great ditance the rampling of horfes, the noife of any enemy, of a flock of theep, or even of ftraycd cattle; they liave only to firetch therifelves on the ground, and to apply their ear clofe to the turf. Bu: nothing is more altonilhing than the acutenefs of fight in moft of the Kalmucs, and the extraodinary diftance at which they often perceive very minute objects, lioch as the dult raifed by cattle or horfes, and this from places very little elevated; in immente level deferts, though the particular inequalities of the furface and the wapours which in fine weather are feen to undulate over the foil in great heats, confiderably increafe the difficulty. They are allo accuftomed to trace the print of a foot in thefe deferts by the fight alone.

Thefe people poflefs many good qualities, which give them a great fuperiority over the wandering Tartars. A certain natural fagacity, a focial difpofition, hofpitality, eagernefs to oblige, fidelity to their chiefs, much curiofity, and a certain vivacity accomparied with good humour, which hardly ever forfakes even the moft wretched annong them, form the fair fide o! their character. On the other hand, they are carelefs, fuperficial, and want true courage; befides, they atr remarkable for credulity, diftrutt, and a natural inclination authorized by cuftom for drunkennefs and debauchery, but efpecially for a great degree of cunning, which they too often practife. The difpofition to indolence is common and nateral, efpecially among the men, to all Afiatic nations, who lead a kind of life exempt from fubjection and devoid of activity; but this is lefs to be perceived among the Kalmucs, on account of their natural vivacity, and does not prevent their endeavours to oblige. Thofe among them who exercife any little trade, or who are reduced by poverty to hire themfelves to the Ruflians either fos labour or for fifhing, are very affiduous and indefatigable. They fleep but little, going to reft late and rifing with the fun. To Ileep through the day, unlefs a perfon is drunk, is confidered by them as dilhonourable. But their extreme dirtinefs can neither be difguifed nor juftified, and proceeds nuch more from their education, from the flovenlinefs attached to the profeffion of a herdfinan, and from levity, than from lazinefs: for the Kalmuc women are indefatigable in whatever concerns domettic matters : and it is for this reafon, as well as on the fcore of fenfuality, that the Kirguifians are eager to feize and carry them off whenever an opportunity prefents itfelf.

With regard to the intellectual faculties of the Kalmucs, notwithftanding their want of inftruction and information, they poffefs good natural parts, an excellent memory, and a ftrong defire to learn. They acquire the Ruflan language with great facility, and pronounce it well; in which laf article they very much furpafs the Chinefe. It would be very eafy to civilize them, if their petulance and manner of life did not render it impracticable.

Although the Kalmucs are generally of a fanguine

## K A L

almucs and choicric temperament, they live more amicably together than one could expect in a people that lead fo independent a life. They feldom come to blows even over their cups, and their quarrels are hardly ever bloody. A murder very rarely happens, though their anger has fonsething in it exceedingly ferce. It would feem that the morality of their religion, though ex-

- ceedingiy idulatrous, has been able to moderate their natural difpofition in this refpect; for in confequence of their dogmas, with regard to the tranfmigration of fouls, every wanton murder cither of men or beafts is thought a deadly fin.

The Kalmucs are exceedingly affable; and of fo focial a difpofition, that it is rare for a traveller to perceive arother, even at the diflance of feveral miles, without going to falute him, and to inquire into the object of his journey. When a troop of Kalmucs perceive any perfon at a diftance, it is cuftomary for them to detach one of their number to the next eminence, from whence lie makes a figual with his eap for the perfon to draw near. If this fignal is not obeycd, the perfon is confidered as an encony or a robber, and is often purfued as fuch. They enter willingly into friendThips: but thefe connexions are not quite difinterelted; for to give and to seceive prefents are with them effential articles. A mere trifle, however, is fufficient to induce them to do you all manaer of fervice; and they are never ungrateful as far as they are able. Adverfity cannot deprive then of courage nor alter their good humour. A Kalmuc will never beg if he were in the extremeft nifery, but rather endeavour to acquire a fubfiftence by cheating: and when no other :ay remains, he will hire bimfelf to fonte rich individual of his nation, or to fome Rullian, either as a herdfman, a fifterman, or for any other fort of labour. Very few of the rich value themfelves much upon their wealth: but thofe who do, thow no conterapt for the poor of their own nation; though the meaner fort pay their court very obfequiouly to the rich, who are always furrounded with a fwarm of idle dependants.

Nothing can be more prudent than that exercife of hofpitality praatifed by wandering nations: it is of the greateft advantage to thofe among them who travel acrofs their deferts; and each individual who practifes it, may rely on reaping the benefit of it wherever he goes. A Kalmuc provided with a horle, with arms and equipage, may ramble from one place to another for three months together, without taking with hime either money or provifions. Wherever he comes he finds either diflant relations or friends, to whom he is attached by the ties of hofpitality, from whom he meets with the hindert reception, and is entertained in the beit manner their circumfances affurd. Perhaps he lodges in the firfe unknown cottage he finds upon his road; and fcarce has he entered it, but his wants are fupplied with the mort affectionate cordiality. Every franger, of whatoever nation, never fails to be well receiced by a Kalinuc ; and he may depend upon hawing his effects in the greate!t fecurity the monent he has put himfelf under the protection of his holl: for to rob a guen is eonfidered by the Kalmuss as the moft abominable of all crimes.

When the mafter of the houf: fits down to meat in company with others of inferioz rank, he begins in-

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deed by ferving himfelf and his family, but whatever Kalmus. remains is diffributed among the afiftants. When $\underbrace{\text { Kas. }}$ they fmoke tobacco, the pipe circulates ineeflantly from one to another. Wheni any onc receives a prefent either of meat or drink, he divides it faithfully with his companions, even though of inferior rank. But they are much more niggardly of their other effects, and efpecially of thcir cattle, and do not willingly give thefe away except when they lope to receive a fuitable return: or if any relation has accidentally fufiered the lofs of his flocks, he is fure to be mol? willingly aflifted. Perhaps too it may be related as an article of their hofpitality, that they abandon thei: wives to their friends with the greatef facility, and in general they are very little inclined to jealouly.

Their robberies are never committed upon their equals, and even the greater part of the rapine exercifed on other tribes is founded on hatred or national quarrels; meither do they willingly attempt this by open force, but prefer the machinations of cuming, which are fo natural to them. It muft allo be confeflied, that it is only thofe that live with princes, and in camps where thefe hold their courts, or their priefts, that are moft addicted to thefe practices; while the common people, fatisfied with the pleafures of the paforal life, fend their days in innocent fimplicity, and never attack the property of another till forced by neceffity, or led by their fuperiors who fhow them the example.

The Kalmucs are very faithful to their lawful prince; they endure cvery fort of oppreflion, and yet are with difliculty induçed to revolt; but if they belong to a prince who has not become fo by right of fuccefion, they very eafily rebel. They honour old age. When young men travel with fuch as are older than themfelves they take upon them the whole care of the catte as well as of the feart. They are exceedingly prudent in matters that relate to their Covereign or their nation, or which are recommended to their direction by the priefts, to whom they yield an unreferved obedience.

The moveable habitations of the Kalmues are thofe felt huts with a cunical roof in ufe among all the roaming Afatics. The truly ingenious incention of thefe tents was undoubtedly conceived in the ealtera parts of Aia, and molt probably by the Mongul nations. As they can be entirely taken to pieces and folded in a frnall compaif, they are very ufeful, and perfectly agree with the migratory life of thefe people, who are ftill ignorant of the ufe of carriages. The frame of thefe huts, and the felt they are covered with, though made as light as polithe, yet are a fufficient load for a camel or two oxen. But the capacity, of thefe huts, their warnath in winter, their frength in refifing tempefts and excluding rain, abundantly conrpenfate for this inconvenience. The wood cadures many years; and though the felt begins to bre.sk into holes in the fecond year, the common people, who do not corifder it as diferaceful to have them mended and patched, mate them lerve a grood deal longer. The huts are in general uff from the prince dows to the meanoft Kalnuc, differing only in ize and in the emsbellihments within. In winter, they are warm even when heaiel with the dried exerements of theer catte, to which they are often obliged to have recourfe, for

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Kadmuss. waint of olher combuntibles, in many places of the deferts which are deflitute of wood. In fummer they renove the felt to enjoy the frefh air.

The mafler of the tent has his bed placed oppofite to the door behind the fire place. The bedfleads are low and made of wood. The rich adorn their beds with curtains, and fpread carpets or felt upon the ground. When a Kalmuc poffefes an idol, he places it near the head of his bed, and fets before it fcveral fmall confecrated cups full of water, milk, or othcr food. Before this fort of altar he fixes in the ground the trunk of a tree, on which he places a large iron bafon deflined to receive the libations of all the drink he makes ufe of in a day. On feltivals the idol is decorated, the lamps are lighted, and perfumes burnt before it.

The riches of the Kalmuss, and their whole means of fubfifitence, depend on their flocks, which many of them reckon by hundreds, and even by thoufands. A man is thought capable of living on lis poffeffions when he is mafter of ter cows with a bull, eight mares rvith a ftallion. The animals they have in greatel abundance are borfes, horned cattle, and fheep. Camels, which require time and pains to rear, cannot multiply much with them; they are befides too delicate; and it is only the rich or the priefts who poffefs any of them. Their horfes are but fmall, too weak for the draught, and too wild : but they do not yield to any in friftnefs, and fupport with cafe the weight of a man. They may be made to gallop for feveral hours fuccefftvely without injury; and when neceflity requires it, they can pafs twice 24 hours without drinking. They have a little hoof, but very hard; and they may be ufed at all times without being fhod. In this country the horfes live and perpetuate themfelves without any affiftance from man. The Kalmucs caftrate the greater part of their male foals, and at the fame time flit their noftrils, hat they may breathe more freely when they run. The fallions are never feparated from the mares, that there may be always plenty of milk. The nallions are leaders of the herd, and often wander at a diflance into the deferts at the head of their females, defending them from the wolves with the greatef intrepidity. The Kalmucs have the art of breaking a young horfe without ufing a bridle. They feize him before he is two years old by means of a noole fixed to the end of a long pole; an inflrument they ufe in taking their riding liorfcs which feed in the midit of the herd. They put no faddle at firft on the colt they mean to break, but tie a fitait girth round his body; by the help of which the borfeman can keep himfelf firm. When he is mounted, the horie is abandoned to his fury : they allow him to run and agitate himfelf as much as he pleares on the open plain till he is fatigued. The horfeman is folicitous only to keep himfelf faft; and when the horfe begins to abate of his impetuofity, he urges him again with the whip till his fliength is almoll gone: he is then faddled and brialled, and made to go for fome time at a moderate pace; after which he is ertirely tamed.

The horned cattle of the Kalmucs are of a beatuiful thape. They keep more bulls than are neceffary for the cows, and employ a great munber of them as beafts of tu:den for carrying their houfes and their other
furniture from place to place. They think a bell kalmas equal to 50 cows. Thefe and the mares give milk only while they fuckle their calves or their foals, which are accordingly kept clofe to the tents during the day, and only fuffered to fuck freely during the night; a practice which the Kalmucs pretend makes their cattle Atronger and more durable. They generally milk their mares thrce or four times a-day, and fometimes every two hours when the herbage is abundant. The cows are milked but twice a-day.

The Kalmuc fheep are of the fame fpecies with thofe found in all Great Tartary, having large tails like a bag, exceedingly fat, and which furnifh a fuet as foft as butter. They have alfo large pendant ears, and their head is much arched. Their wool is coarfe, and the ewes feldom have horns. One ram is fufficient for a hundred ewes. Little ufe is made of the milk. The wool is fit for nothing but to make felt for the tents. A great many theep die during winter, and a greater number fill of the early lambs: the fkins of which are wrought into thofe fine furs fo much efteemed in Ruffia and foreign parts.

Camels belong only to the tich; for they are very dear, multiply very ilowly, and are fubject to many difeafes. The deferts of the Wolga, and almoft all thofe of the fouthern parts of Great Tartary, furmifh excellent pafture for thefe animals; but they require not only much attention in winter, but they muft be continually under the eye of the herdmen; for notwithftanding the advantage of their ftature, they are of all animals leaft able to defond themfelves againft the wolf. They are guarded with much care againft the violence of the cold and the winds of winter; neverthelefs many of them die of a confumption accompanied with a diarrhoea, occafioned mof probably by the moifture of their pature and of the feafon. This difeafe, for which no remedy has been found, makes them languifh for fix months or more. They are in general fo delicate, that a llight wound or blow often proves fatal to them. Befides, no animal is fo much tormented with infects; and they often die in fummer of thofe they frallow in eating the leaves of the oak and of the birch. The meloe profcarabceus, which covers all the plants in many of thofe places where they feed, is generally fatal to them. In fpring, when they calt their hair, and which falls at once from every part of their hody, they are expofed to the bite of the fpider-fcorpion, an animal very common in fouthern countries. The wound inflicted by this infect on the fkin thus naked is fo venomous, that the camel dies of it in lefs than cight days, fometimes in three. In winter, and efpecially after rutting time, which happens at the end of March, the camels become lean and weak; the bunch upon their back grows flabby, and hangs down upon the fide, nor does it recover its plumpnefs till fummer.

Camels milk is thick, unctuous, and of a faltilh tafte, efpecially when the animals frequent paflures abounding with faline plarits; and this laft property makes the Kalmucs fond of it to tea. They make ufe of the hair for fluting culhions, and for making ropes, packthread, and felt. It may be wrought into the mot beautiful camlets, or into the fineft and fofteft cloths. The caniels wisth two bunches are a very ur:-

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Calmuce cafy feat to the perfon who mounts them ; their trot is to heavy, and even their walk fo rude, that he receives the moll violent hrocks at every ftep.

When a Kalmuc horde intends to remove in fearch of freth patture, which in fummer necettarily happens every four, fix, or eight days, people are in the firf place de!pztched to reconnaitre the beft place for the Whan or prince, for the lama, and for the huts containing the idols. Thefe begin the march, and are fol lowed by the whole troon, each choofing for himfelf the place he thinks mof convenient. The cancel that is loaded with the moft precious furniture is decorated with little bells, the reft march in a ftring one behind another, and the bulls with burdens are driven on before. On thefe days the women and girls drels themfelves in their beit clothes, and lay on abundance of paint. They have the charge, together with the boys, of leading the flocks and the bealts of burden; and on the road they beguile the tedioufnefs of the journey uith their fongs.

The Kalmucs are fupplied by their flocks with mill, checle, butter, and heth, which are the principal articles of their food. With regard to the latt, they are fo little fqueamih, that they not only eat the flell of their own difeafed cattle, but that of almolt every fort of wild beaft, and the poor will even feed upon carrion. They cat, however, the roots and falks of many plants; fuch as the bulbous-rooted chervil and dandelion, \&xc. which they ufe both boiled and raw.

Their ordinary drink is the milk of mares or cows; but the former is for feveral reafons preferred. This, when freth, has indeed a very difagrecable talle of garlic : but befides that it is mucl thinner than cow milk, it takes as it grows four a very agreeable vinous llavour; it yields neither crearn nor curd, but furnifhes a very wholefome refrefhing beverage, which fenfibly inebriatcs when taken to excefs. They never make ufe of new milk, and Atill lefs of milk or of water that have not been boiled. Their milk is hoiled as foon as it is taken from the animal; when it is cold it is poured into a large leathern bag, in which there remains as much of the old milk as is lufficient to turn the new quantity four, for they never think of clcanfing thofe bags; and as the infide is lined with a crult depofited by the cafeous part of the milk and other impurities, it is eafy to imagine that a naufeous finell muft exhale from them. But this is precifely the circumfance in which the fecret confilts of communicating to the milk a vinous fermentation.

In fummer, and as often as the Kalmucks procure much milk from their Hocks, they never fail to intoxicate themfelves continually with the firstuous liquor which they know how to diftil from it. Mares nilk is the moft fpirituous; and the quantity meant to be diil:!led remains twenty-four hours in fummer, aud three or four days in winter, in thofe corrupted bags we mentioned, io prepare it for the operation. The cream is left, but the butter which forms at top is taken off and referved for other purpofes. Cows milk yields one-thirtieth part, and mares milk one-fifteenth part, of firit. This liquor is limpid and very watery, and confequently does not take fire, but is capable of being long kest in glafs bottles. The rich Kalmucs increafe its frength by a fecond diffillation.

The fe poopic are cxceeding'y iond of sea athd tobacco. The former is fo dear, as :i comes to them from Clina by the way of Rutia, that the poor people
$\underbrace{K=10}$ fupply its place with various wild plants; fuch as a fpecies of litzuorice, the feed of the tharp-ieared dock, the roots of wild angelica, and the feed of the farta. rian maple.

The Kalmucs are excellent horfermen. Their armas are lances, bows, and arrows, poniards, and crooked fabres, though the rich have fire arms. They wear, when at war, coats of rail, which coll fifty horfes, and their helmets are gilded at top. They are fond of falcoury, and hunting of all forts is their principal amufement. Their paffion for play, efpecially with thofe who play cards, is carried to as great excefs among tbem as in any oiher nation.

The greater part of their time is fpent in diverfions; and however miferable their manner of life may feem to us, they are perfectly happy with it. They cannot endure for any time the air of a clofe room; and think our cuffom of living in houfes infupportable. The greatelt past of them, notwithftanding of the apparent unhealthinefs of their way of life, arrive at a vigorou: old age ; their difeafes are neither frequent nor dangerous. Men of 80 or 100 years old are not uncommon; and at that age they can flill very well endure the exercife of riding. Simple food, the free air which they conftantly bieathe, a bardj vigorous conflitution, contimual exercife without fevere labour, and a mind free from care, are the natural caufes of their health and longevity.

It is wery remarkable, that a migratory people, whofe manner of life feems fo congruous to the natural liberty of mankind, thould have been fubjected from time immemorial to the unlimited authority of an abfolute fovereion. The Monguls of Alia afford the only inftance of it ; for neither written records nor ancient tradition have preferved the fmalleft trace of their ever having enjoyed a fate of independence. On the contrary, they acknowledge that they have at all times been fubject to kharis and princes, whofe authority has beeal tranfmitted to them by fucceflion, and is confidered as a right perfectly eftablifhed, facred, and divine.

KAMAKURA, a famous inland of Japan, about three miles in circumference, lying on the fouth coah of Niphon. It is here they confine their great men when they have committed any fault. The coalt oiz this ifland is fo fteep, that they are forced to be lifted? up by cranes.

KAMEEL, Kanel, or Camel, a mackine for lifting fhips. See Canel.

KAMINIECK, a very ftong town of Poland, and capital of Podolia, with two caftles and a bifhop:s fee. It was taken by the Turks in 1672 , who gave it back in 1690 , after the treaty of Carlowitz. It is feated on a craggy rock, in E. Long. 2\%.30. N. Lat. 48. 58.

KAMSIN, the name of a hot foutherly wind common in Egypt, of which we find the following defcription in Mr Volney's 'Iravels. - Thefe winds, lays he, are known in Egypt by the general name of winds of $j 0$ days; not that they laf $j 0$ days without intermiffion, but becaufe they prevail more frequently in the 50 days preceding and following the equinox. Tra-

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Yamfin, vellers have mentioned them under the denomination Kamtichat- of poijonous auinds, or, more correcily, hot winds of ti:e
$d_{t}$ fer:. Such in fact is their quality; and their heat is fometimes fo exceffive, that it is difficule to form any idea of its violence without having experienced it ; but it may be compared to the heat of a large oven at the moment of drawing out the bread. When thefe winds begin to blow, the atmofphere aflumes an alarming afpea. The fky, at other times fo clear in this elimate, becomes dark and heavy; the fun lofes his -plendour and appears of a violet colour; the air is not doudy, but gray and thick, and is in fact filled with an extremely fubtile dunt, which penetrates everywhere. This wind, always light and rapid, is not at - frift remarkably hot, but it increafes in heat in proportion as it continues. All animated boiies foon difcover it by the change it produces in them. The Surigs, which a too rarefied air no longer expands, are contracted, and become painful. Refpiration is thort and difficult; the 隹in parched and dry, and the body confumed by an internal heat. In vain is recourfe had to large draughts of water; nothing can reftore perfpiration. In vain is coolnefs fought for; all bodies in which it is ufual to find it deceive the hand that touches them. Marble, iron, water, notwithftanding the fun no longer appears, are hot. The ftreets are deferted, and the dead filence of night reigns everywhere. The inhabitants of towns and villages thut themfelves up in their houles, and thofe of the defert in their tents or in wells dug in the eath, where they wait the termination of this dellruftive heat. It ufually lafts thice days, but if it exceeds that time it becomes infupportable. Wo to the teaveller whom this wind furprifes remote from thelter: he muft fuffer all its horrible effects, which fometimes are mortal. The danger is moft imminent when it blows in fqualls; for then the rapidity of the wind increafes the heat to fuch a degree as to caufe fudden death. This death is a eeal fuffotation; the lungs being empty are convulfed, the circulation is difordered, and the whole mafs of Slood driven by the heart towards the head and breatt; whence the hrmorthagy at the nofe and mouth which Bappens after death. This wind is efpecially deftructive to perfons of a plethoric habit, and thofe in whom fatigue has deltroyed the tone of the mufcles and the veffels. The corpfe remains a long tine warm, fivelis, turns blue, and foon becomes putrid. Thefe accidents are to be avoided by flopping the nofe and mouth with handkerchiefs; an efficacious method likewife is that pragifed by the camwls. On this occafion thefe animals bury their nofes in the fand, and keep them there till the fquall is over. Another quality of this wind is its extreme aridity, which is fuch, that water fyrinkled on the floor evaporates in a few minutes. By this extreme drynefs it withers and ftrips all the plants; and by exhaling too fuddenly the enamations from animal bodies, crifps the fkin, clofes the pores, and caufes that feverith lieat which is the conftant effect of fuppreffed peripiration.

KAMTSChatKA, Kamschatka, or KamchaiBo; a large peninfula in the north-eaftern part of A. fia, lying between $51^{\circ}$ and $62^{\circ}$ of north latitude, and between $173^{\circ}$ and $182^{\circ}$ of eaft longitude from the inte of Ferro. It is boun. $\cdot d$ on the eaft and fouth by the Sea of Kamt?cbatka, on the weft by the feas of Ochotik
and Penfhinfors and on the north by the country of the Kametel Koriacs.

This peninfula was not difcovered by the Ruffians hefore the end of the latt century. It is probable, When fir however, that fore of that nation had vifited Kamtf- vifited chatka before the time above mentioned. For when the Ruf. Volodomir Atlafofe entered upon the conqueft of ${ }^{\text {flians, }}$ this peniufula in 1697 , he found that the iahabitants had already fome knowledge of the Ruflians. A common tradition as yet prevails among them, that long before the expedition of Atlaffoff, one Feodotoff and his companions had refided among them, and had intermarried with the natives; and they flill fhow the place where the Ruffian habitations food. None of the Ruflians remained when Attaffoff firft vifited Kamtfchatka. They are faid to bave been held in great veneration, and almoft deified by the matives: who at firft inagined that no human power could hurt them, until they quarrelled among themfelves, and the blood was feen to fow from the wounds which they gave each other: and foon after, upon a feparation taking place, they were all killed by the natives. - Thefe Ruffians were thought to be the remains of a mip's crew who had failed quite round the north. eaftern promontory of Aira called Tfchukutfoi Nofs. The account we have of this zoyage is as follows.In 1648 , leven kotches or veffels failed from the mouth of the river Kovyma or Kolyma, lying in the Frozen ocean in about $72^{\circ}$ north latitude, and $173^{\circ}$ or $1.74^{\circ}$ eaft longitude from Ferro, in order to pentrate into the eaftern ocean. Four of thefe were never more heard of; the remaining three were commanded by Simon Dethneff, Gerafim Ankudinoff, two chiefs of the Coffacs, and Feodotoff Alexcef, head of the Promylhlenics, or wandering Ruffians, who occafionally visited Siberia. Each vefiel was probably manned with about 30 perfons. They met with no obfructions from the ice; but Ankudinoff's velte! was wrecked on the promontory above mentioned, and the crew were diftributed on board the two remaining veffels Thefe two foon after loff fight of each other, and never afterwards rejoined. Defhneff was driven about by tempeftuous winds till October, when he was mipwrecked on the northern part of Kamifchatka. Here he was informed by a woman of Yakutik, that Fea dotoff and Gerafim had died of the fcurvy ; that part of the crew had been bain; and that a few had efcaped in fmall vefiels, who had never afterwards been heard of; and thefe were probahly the people who, as we have already mentioned, fettled among the Kamtichatkans.

As the inhabitants of this country were neither nu-Subdued merous nor warlike, it required no great force to fub- them. due them: and in 1711 the whole peninfula was fina?: ly reduced under the dominion of the Rulians.- Fo: fome years this acquifition was of very little confequence to the crown, excepting the fmall tribute of furs exagted from the inhabitants. The Rulians indeed occafionally hunied, in this perimifula, fuxes, wolves, crinines, fables, and other animale, whofe Ifius form an extenfive article of commerce among the eaftern nations. But the fu: trade carried on from thence was very inconfiderable, until the feries of in lands meationed in the next article were difcovered; fince which time the guantities of furs brought from
imitchat- thefe illands have greatly increafed the trade of Kamutf-
chatka, and rendered it an inportant part of the Ruffian commerce.

The face of the country throughout the peninfula is chiefly mountainous. It produces in fome parts birch, poplars, elders, willows, underwood, and berries of different forts. Greens and other vegctables are raiicd with great facility; fuch as white cabbage, turnips, radifhes, beet root, carrots, and fome cucumbers. Agriculture is in a very low fiate, owing chiefly to the nature of the foil and the fevere hoarfrofts: for though forme trials have been made with refpect to the cultivation of grain, and oats, barley, and rye, have been fown, yet no crop has ever been procured fulficient in quantity or quality to anfiver the trouble of raiing it. Herap, however, has of late years been cultivated with great fuccefs.-Every year a veffel belonging to the crown fails from Ochotk to Kamtflehatka laden with fait, provifions, corn, and Rufian manufaclures; and returns in June or July of the following year with \&ins and furs.
Many traces of volcanoes have been obferved in this peninfula; and there are fome mountains which are in a burning flate at prefent. The mof confiderable of thefe is fituated near the middle of the peninfula. In 1;62, a great noife was heard iffuing from the infide of that mountain, and flames of fire were feen to burft from difierent parts. Thefe flames were immediately fucceeded by a large itream of melted fnow water, which flowed into the neighbouring valley, and drowned two natives who were there on a hunting party. The afhes and burning matters thrown from the mountain were fpread over a furface of 300 verfts. In $1 ; 67$ was another difcharge, but lefs conliderable. Every night Hames of fire were obferved fireaming from the mountain; and confiderable damage was done by the eruption which attended them. Since that year no flames have been feen; but the mountain emits a conftant fmoke.
Kamtichatka is divided by the Ruflians into four difticts; and the government of the whole is dependent unon, and fubjeet to, the infpeation of the chancery of Ochotf. The whole Ruffian force fationed in this penirifula amounts to no more than 300 men . 'The prefent population of Kamefchatl:a is very fmall, amounting to fcarce 4050 fouls. Formelly the inhabitants were more rumerous; but in 1768 , the fuallpo. carried off 5,68 perfons. There are now only about $7=0$ males in the whole peninfula who are tributary, ard a few more than 100 in the neighbouring inlands, called the Kiurile I/les, who are fubject to Rullia. The fixed annual tribute confifts in 279 fables, 464 red foxes, 50 fea otters with a dam, and 38 cub otters. All furs exported from Kamtichatka pay a duty of 10 per certs. to the crown; the tenth part of the cargoes houglt from the neighbouring illands is alfo delivered into the cufloms.

Miny of the natives of Kamtfchatka have no fixed habitations, but wander from place to place wih their herds of rein deer ; oflers hare fettled habitations, and refide upon the lanks of the rivers and the flore of the Prulchink fea, living upon linh and fea animals, and fuch herbs as frow upon ther flooe: the former dwell in luts encered with deer foins; the latier in places di.: out of the eqr:!. The matires are divided an:o Vol. X1. Part 11 .
three diferent peoples, namely, the Kamt:chatkans, Kam:chatKoreki, and Kuriles. The Kamtchatkans live upon ka. the fouth fide of the promontory of Kamtflatha: the Koreki inhabit the northern parts on the coaft of the Penfchinfka fea, and round the eaftern ocean almolt to the river Anadir, whofe mouth lies in that ocean almont in $68^{\circ} \mathrm{N}$. Lat. : the Kuriles inhabit the illands in that fea, reaching as far as thofe of Japan. The Kamtfchatkans have this particular cuftom, that they endeavour to give every thing a name in their language which may exprefs the property of it; but it they do not underitand the thing quite well themfelves, then they take a name from fome foreign language, which perhaps has no relation to the thing ittelf; as, for example, they call a prieft bogbog, becaufe probably they hear him ufe the word bog log $_{5}$, "God;" bread they call lerightatiz augsh, that is Rulfian root; and thus of feceral other words to which their language is a Aranger.

It appears probable, that the Kamtichatkans lived formerly in Mungalia beyond the river Amar, and made one people with the Mungals; whicb is farther confirmed by the following obfervations, fuch as the Karntchatkan having feveral words common to the Mungal Chinefe language, as their terminations in ong, ing, oang, chin, cha, ching, kfii, kfung; it would be ftill a greater proof, if we could fhow feveral words and fentences the fame in both languages. The Kamtfchatkans and Miungals alfo are both of a middling flature, are fwarthy, have black hair, a broad face, a Marp nofe, with the cyes falling in, eyebrows fmall and thin, a hanging belly, flender legs and arms; they are both remarkable for cowardice, boalting, and flavifhnefs to people who ufe them hard, and for their obflinacy and contempt of thofe who treat them with gentlenefs.

Although in outward appearance they refemble the other inhabitants of Siberia, yet the Kamtfchatkans differ in this, that their faces are not fo long as the other Siberians; their cheeks fland more out, their teeth are thick, their mouth large, their fature middling, and their thoulders broad, particularly thofe people who inhabit the fea coaft.

Both men and women plait their hair in two locks, binding the ends with fmall ropes. When any hair ftarts out, they few it with threads to make it lie clofe; by this means they have fuch a quantity of lice, that they can frape them off by handfuls, and they are nafly enough even to cat them. Thofe that have not ratural hair fufficient, wear falfe locks, fometimes as much as weigh 10 pounds, which makes their head look like a haycock. But many of the women already wear their hair, and are nearly drefied in the fame manner as the Ruflians, whofe language is the moft prevalent. It may be faid in praife of the Ruflians, that though they have eftablifhed a defpotic goverument in this rude climate, it is temperd by a mildnels and equity which prevent its inconveniences from being feli. The taxes levied on the Kamtflatales are fo trifing, that they may be regarded only as a mark of gratitude to the fovcreign La Peroufc confidered the people of this peninfula as the fane with thofe of the bay of Caltiee, their miluncefs and pro' ity being fimilar, and their ferfons very listle different.

Their trade is almof entirely corfined to procureTra..? the insocdiate mefefarics and conseniencics of life. 3 H 1 Hcy

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:.nntrhat- They fell the Kcreki fables, fox and white dog Reins, ka. made of deer Ilks and other hides. Their domellic trade confifts in dogs, boats, dikes, troughs, nets, hemp yarn, and provifions: and this kind of barter is carried on under a great flow of friendihip; for when one wants any thing that another has, he goes freely to visit him, and without any ceremony, makes hnown his wants, although perhaps he never had any acquaistaise with him before : the hoff is obliged to behave according to the cufom of the country, and give his guat what he has occation for; but he may afterwards return the rift, and muff be received in the fame manner. They fill almof every place in heaven and earth with different finis, and offer them facrifices upon every occation. Some carry little idols about them, or have them placed in their dwellings. above ten: for haring reckoned the fingers of both hands, they clap them together, which fign:ifes ten; then they begin with their toes, and count to twenty; after which they are quite confounded, and cry, Metcha? that is, Where fall I take more? They reckon ten months in the year, fume of which are longer and fore flouter; for they do not divide them by the changes of the moon, but by the order of particular occurrences that happen in thole regions. They commonty divide our year into two, to that winter is one year and fummer another: the fummer year begins in May, and the winter in November. They do not diftinguih the days by any particular appellation, nor form them into weeks or months, nor yet know how many days are in the month or year. They mark their epochs by fore remarkable thing or other; fuck as the arrival of the Ruffians, or the frit expedition to Kantichatka.
any one kills another, he is to be killed by the relations of the perfon fain. 'They burn the hands of people who have been frequently caught in theft; but for the frt offence the thief mut reflore what he hath flolen, and live alone in folitude, without expecting the affiftance of others. They have no disputes about their land or their huts, every one having land and water more than fufficient for his wants. They think themselves the happieft people in the world, and look upon the Ruffians who are fetled among them with contempt. However, this notion begins to change; for the old people who are confirmed in their cufloms drop off, and the young ones being converted to the Chiffian religion, adopt the cuftoms of the Ruffians, and defpife the barbarity and fuperflition of their ance tors. The Greek religion has treen effablifhed among them without perfection or violence. The vicar of Paratounka $i$, the Ion of a native by a Ruffian woman. The people have inured theniflelves to the extremes of heat and cold, by going into vapour baths, coming out covered with perfiviration, and then rolling themfelives in the frow.

In every olfrog or large village, by order of her inperial majefly, is appointed a chief, who is fore judge in all cafes except thole of life and death; and not only thole chiefs, but even the common people, have their chapels for worthip. Schools are alpo erected in al. mont every village, to which the Kantflhatkans fend their children with great pleafure; by this means it is
to be hoped that barbarity will be in a fort time rooted Kamerel, out from amongit them.

Under the name of offrog is underflood every ha- bitation confining of one or more huts, all furrounded 1 In 10 by an earthen wall or pallifado.- The huts are built building in the following manner: they dig a hole in the earth their he about five feet deep, the breadth and length proportoned to the number of people defigned to live in it. In the middle of this hole they plant four thick wooden pillars; over thee they lay balks, upon which they form the roof or ceiling, leaving in the middle a fquare opening which ferses them for a window and chimney; this they cover with grafs and earth, fo that the outward appearance is like a round hillock; but within they are an oblong fquare, with the fire in one of the long tides of the fquare : between the pillars round the walls of their huts they make benches, upon which each family lies Separately; but on that file oppofite to the fire there are no benches, it being defigned for their kitchen furniture, in which they dress their victuals for themfelves and dogs. In thole huts where there are no benches, there are balks laid upon the tor, and covered with mats. They adorn the walls of their huts with mats made of graft. They enter their huts by ladders, commonly placed near the fire hearth; fo that, when they are heating their huts, the fteps of the ladder become fo hot, and the fmoke fo thick, that it is almoft impolfible for a ftranger to go up or down without being burnt, and even filled to death ; but the natives find no difficulty in it; and though they can only fix their toes on the fleps of the ladder, they mount like fquirrels; nor do the women hefitate to go through this moke with their children upon their ficoulders, though there is another opening through which the women are allowed to pats; but if any man pretend to do the fame, he would be laughed at. The Kamtfhatkans live in there huts all the winter, after which they go into others called lalagans; thee ferve them not only to live in during the fumier, but alfo for magazines. They are made is the following manner: Nine pillars, about two fathoms long, or more, are fixed in the ground, and bound together with balks laid over them, which they cover with rods, and over all lay graft, fattening f pars, and a round flare roof at top, which they cover with bramble, and thatch with graft. 'They fate: the lower ends of the pars to the balks with ropes and thongs, and have a dour on each fide, one directly oppolite to the other. They make ufe of the fame kind of huts to keep their filh, \&ce. till winter comes on, when they can more eafily remove it; and this without any guard, only taking away the ladders. If the fe buildings were not oo high, the wild beats, would undoubtedly plunder them; for notwithflanding all their precaution, the bears fometimes climb up and force their way into their magazines, efpecially in the harveit, when the fill and berries begin to grow farce.

The fouthern Kamtfchatkans commonly build their villages in thick woods and other places which are naturally ftrong, not lefs than 20 vert from the ea; and their funmer habitations are near the mouths of the rivers; but thole who live upon the Penfchinfka lea and the eaftern ocean build their villages very wear the chore. Inlay look upon that river near which

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garment they choofe black, white, or fpeckled Akins, Kametchatthe hair of which is moft elteemed for the beauty of its ka. coluu:.

Men and women without ditinction ufe the abovementioned grarnents, their drels only differing is their under clothing and in the covering of their feet and legs. "Ilise women bave an under garment, which they co:nmonly wear at home in the houle, confifting of breeches and a wailtcoat fewed together. The breeches are wide like thofe of the Dutch $\mathbb{k i p p e r s}$, and tic below the knee; the wailcout is wide aoove, and drawn round with a tring. The fummer habits are made of dreffed fl-ins without hair: their winter garment is made of deer or ttene ram flkins with the hair on. The undrefs or houfehold habit of the men is a girdle of leather with a bag before, and likewife a leathern apron to cover them behind; thefe girdles are fewed with hair of different colours. The Kamtlchatians ufed formerly to go a hunting and fifhing during the flommer in this drefs; but now this faftion is changed, and they wear linen flitts, which they buy from the Rulfians.

The covering of their feet and legs is made of fkins of different Corts: in the fummer time, during the rains, they wear the Rkins of feals with the bair outwards: but their moft common covering is the fkin of the legs of the rein decr, and fometimes of the legs of other beafts, the thaggieft they can find, to preferve them againtt the cold. But the buakins which both the Coflacks and Kantfchatkans ufe in their fineft drefs are made in the following manuer: the fole is of white feal thin, the upper pait of fine white leather, the hind quarters of white dog ikin ; what comes round the legs is of drelfed leather or dyed feal $\mathfrak{k i n}$; the upper parts are embroidered. Thefe bullins are fo extraordinary, that if a bachelor is obferved to wear them, he is immediately concluded to be upon a fcheme of courthip.

They wear the fame lort of caps as the people of Yakutli. In fummer they have a fort of hats of birch bark tied about their head. The Kuriles ufe in the fummer time caps made of plaited grafs. The wonnen's head drefs is the perukes that we formerly mentioned; and thefe were fo dear to them, that when they eame to be Chriftians they were with dificulty prevailed upon to quit this dref; for one more decent: however, at prefent, round the Rulian lettlements, all is entirely changed, the women wearing thirts, ruftes, waittcoats, caps, and ribbands; which change nobody no:v complains of except the very old people. The women do all their work in mittens; they formerly never walhed their faces, but now they ufe both white and red paint: for white paint they make ufe of a rutten wood; and for red a fea plant, which they boil in feals fat, and rubbing their cheeks with it, make them very red. They drefs moft in the winter time, efpecially when they either receive or pay vifits.

The common clothes for a Kamtfehatkan and his family will not coft him lels than 102 rubles; for the coarfelt worfted ftockings, which coft in Ruffia 20 kopeeks, cannot be bought here for lefs than a ruble; and all other things are fold in the fame proportion. The Kuriles are more able to buy good clothes than the Kamtfchatkans: for they can purchafe for one fea beaver as nuch as the Kamtfchatkans can for twenty foxes; and one beaver colts the Kuriles no more trouble than five foxes do the Kamtichatkans; for he muft $3 \mathrm{H}_{2}$
be

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Kantflat-be a good hunter who catches more than ter fores in they buil it in their troughs with feveral dinerent Pameh ka. the winter ; and a Kurile thinks hintif unlucky if he doth not ca:ch three beavers in the feafon ; befides which, great numbers are thrown upon the thure by ftorms.
The Kamtfohatkans divide their fib into fix parts; the fides and tails are hung up to dry; the back and thinner part of the belly are prepared apart, and geverally dried over the fire; the head is laid to four in pits, and then they eat it like falt fif, and efterm it much, though the link is fuch thent a ftranger cannot bear it; the ribs and the Heih which semain upon them they hang up and dry, and afterwards pound for ufe; the larger bones they likewife dry for food for their dogs: in this manner all thefe different people prepare the yolola, which is their principal food, or, one may fay, houfchold bread ; and they eat it for the moft part dry.

Their fecond favourite food is caviare, or the roes of fifh, which they prepare three different ways. They dry the roe whole in the air ; or take it out of the fkin which envelopes it, and fpreading it unon a bed of grafs, dry it before the fire ; or, laftly, make rolls of it with the leaves of grafs, which they allo dry. They never take a journey or go to hunting without dry caviare ; and if a Kantfchatkan has a pound of this, he can fubfit without any other provifion a grcat while; for every birch atid alder tree furnifnes him with bark, which with his dried caviare mal:es him an agrecable meal; but they cannot eat cither feparately, for the caviare fliclis like glue to the teeth; and it is almoit impoffible to fwallow the bark, chewed ever fo long by itfelf. There is \{ill a fourth method, which boih Kamtichatkans and Koreki ufe in preparing their caviare: the firt, having covered the bottom of a pit with grals, they throw the frefh caviare into it, and leave it :here to grow four: the Koreki tie theirs in bags, and leave it to four ; this is efteemod their moft delicate dih.

There is a third fort of diet, called by the Kamt\{chatikans chupriki, which is prepared in this manner: in their huts, over the fire-place, they make a bridge of takes, upon which they lay a heap of fifh, which remains there, until the hut becomes as warm as a bag. nio. If there is no great thicknefs of filh, one fire ferves to dre? it; but fometimes they are obliged to make two, three, or more fires. Filh dreffed in this manner is half roafted hali fmoaked, but has a very agreeable tafte, and may be reckoned the belt of all the Kamtfchatkan cookery: for the whole juice and fat is prepaied with a gradual beat, and kept in by the fkin, from which tley may when done enough be eatily feparated; and as foon as it is thus dreffed, they take out the guts, and fpread the body upon a mat to dry: this they aflerwards break fmall, and putting it into bags, carry it along with them for provifion, eating it like the yokola.

The Kametchatkans have a difh which they efteem very much, called huigul: it is filh laid to grow four in pits; and though the fmell of it is intolerable, yet the kamtfhatkans efteem it a perfume. This fith fometimes rots fo much in the pits, that they cannot take it out without ladles; in which cafe indeed they ufe it for feedine: their dogs.

As for the Hefh of land and the larger foa animals,
lenes and roos; the broth they drink out of ladles and bunls, anl the meat they take oat upon boards, and eat in their hands. The whale and fea horfe fat they allo boil with roots.

There is a principal dim at all their feafts and entertainments, calied felaga, which they make by pounding all forts of diferent roots and berries, with the addition of caviare, and whale and feals fat.

Before the conquelt, they feldom ufed any thing for drink but plain water, unlefs when they made merry; then they drank water which had food fome time upon mufhrooms. At prefent they drink fpirits as falt as the Ruflians. After dinner they drink water : and when they go to bed at night, fet a veliel of water by them, with the addition of dnow or ice to keep it cold, and always drink it up before morning. In the winter time, they amule themfelves frequertly by throwing handfuls of fnow into their mouths: and the bridegrocms, who work with the fathers of their future brides, find it their harden talk to provide fnow for the family in fummer time ; for they mult bring it froms the ligheft hills, be the weather what it will, otherwife they would never be forgiven.

The Kantfchatkans commoniy travel in ीledges Methed e: drawn by dogs. The animals uled for this purpofetravelling difier very little from the common houfe dogs; they with dogs are of a miduling fize, of various colours, though there feem to be nore shite, black, and gray, than of any other. In travelling, they make ufe of thofe that are caftrated, and generally yoke four to a fledge. They drive and direct their dogs with a crooked flick about four feet long, which they fometimes adorn with different coloured thongs; this is looked upon as a great piece of finery. They drive their tledge fitting upon their right fide, with their feet hanging down; for it would be looked upon as a difgrace for a man to fit down at the botcm of the fledge, or to make $u^{\gamma} \mathrm{e}$ of any perfon to drive him, nobody doing this but the women. It is very difficult to travel in thefe fledges; for unlefs a man keeps the exacteft balance, he is liabie every moment from the height and narrownefs of them to be overturned : in a rugged road this would be very dangerous, as the dogs never flop till they come to fome houfe, or are entangled by fomething upon the road; efpecially in going down feep hills, when they run with all their force, and are farcely to be kent in; for which reafon, in defcending any great declivity, they unyoke all the dogs except one, and lead them foftly down. They likewife walk up hills; for it is as much as the dogs can do to drag up the fledge empty. After a deep fnow, before it has been hardened by a froft, there is no travelling with dogs till a road be made, which is effected by a man going before upon fnow hoes, whom they call brodorfkika. The fnow Ghoes are made of two thin boards, feparated in the middle, bound together at the ends, and with the fore part bent a little upwards. The brodovikika, having one of thefe fhoes upon cach foot, leaves the dogs and fledge, and going on clears the road for fome way; then returning, leads forward the dogs and fledge fo far as the road is made; a method which he mult continue till he comes to fome dwelling houfe. This is very laborious; and it happens fo often, that no driver ever fets out without his fnow floes. When a ftorm of driven
fnow

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Amfchat frow furprifes them, they are obliged with al! Ante to
feck the thelter of tome wood, and flay there as long, as the tempeft la ls, which fometimes is a whole week. If they are a large company, they dig a place for themfelves under the frow, and cover the entry with wood or brambles. Sometimes they hide themfelves in caves or holes of the earth, wrapping themfelves up in their furs; and when thus covered, they move or turn themselves with the greaten caution left they should throw off the frow, for under that they lie as warm as in their common huts: they only require a breathing place; but their clothes muff not be tight or hard airt about them, for then the cold is unfufterable. Another danger attending travellers is, that in the fevere!t frolt feveral rivers are not quite frozen over; and as the roads for the molt part lie clofe upon the rivers, the banks being very hep, farce a year gaffes without many being drowned. A difagreeable circumfance also to thole who travel in thefe parts, is their Sometimes being obliged to pals through copies, where they run the rilk of having their eyes foratched. out or their limbs broken; for the dogs always run mol violently in the wort roads, and, to free therefelve, very often overturn their driver. 'The belt irafelling is in the month of March or April, when the flow is turned hard or frozen a little at top; however, there is fill this inconvenience attending it, that formetimes travellers are obliged to lodge tho or three nights in defers places; and it is difficult to prevail upon the Kamtchatkans to make a fire either for warming themfives or dreffing victuals, as they and their dogs eat dried fish, and find themlelves fo warm wrapped in their furs, that they want no other heat; nav, all the people in this climate bear cold to well, that they fleep in the open air as found as others in a warm bed, and awake next morning perfectly refreflicd and alert. This Sens to be fo natural to all here, that forme of them have been feer to lie dorm with their basks uncocered against a fire, and notwithstanding the fire has been burnt out long before morning, they continued to sleep on very comfortably, and without any inconve. nience.

The bay of Avaticha is defcribed by M. Peroufe as the fineft, mon convenient, and the farrell that is to be met with in any part of the world. The entrance is narrow, the bottom is mud, and excellent holding ground. 'Two val harbours, one on the eaftern, and the other on the weftern fide, are capable of containing all the Chips of the French and English navy. The village of St Peter and St Paul is fituated on a tongue of land, which forms a little port behind the village, in which three or four veffels mist ht be laid up for the winter. It is found to be in N. Lat. 53. 1. E. Long. 156. 30 . from Paris.
glands in the fen of KAmtschatra. So many of the fe have been difcorered by the Rumina, that the exiftence of almolt a continued chain of illande between the continents of ACid and America is now rendered extremely probable. Many further difcoveries of great importance to science, however, remain yet to be made. The principal inland already known are the Kurile illes, which wretch fouth-welt towards the cons of China or Japan, and are almon uninhabited; tho ce called Beering's and Copper islands, tie A'eutiar ike, a it $\Gamma: x$ iflands, or Lye fie Offrova, lie almond directly cal., stretch-
 firth project of making dilcuveries in th et temueltun 1 s fess which lies between Kanutchatka and America was feet o: foot by Peter the Great of Ry:'in. Captains Bearing and 'Thchirisoff were employed ja the undertaking; the former of whom was shipwrecked and died on the Bland which is Ail called by his name. As this lies at no great diltance from Kamtchatka, the inhabitans of the latter food ventured over to it, as the leaotters and other amimals of that kind were accustomed to refort thither in great numbers.

Mednoi Ottroff, or Copper inlaid, which lies in full Copper fight of Bearing's ill ind, was next vifited. This Bland infant dehas its name from the great quantity of copper with ${ }^{\text {scribed. }}$ which the north-eaft coat h of it abounds, the only fide which is known to the Ruffians, It is walked up by the fear, and covers the thores in fuch abundance that many this might be loaded with it. Perhaps an India teader might: make a profitable voyage from thence to China, where this metal is in high demand. This copper is moftly in a metallic or malleable fate, and many pieces lem as if they had formerly been in fulton. The inland is not high; but has many hillocks, each of which has the appearance of having formerly been a volcano. With this kind of hillocks all the illand; in the fa of Kamtlchatka abound, infomuch that not a fingle inland, though ever fo frill, was found without one; and many of them confided of nothing elfe. In floret, all the chain of iflands above mentioned may without any fletch of imagination be considered as thrown up by from late volcanoes. The apparent novelty of every thing deems to jultify this conjecture: nor can any objection be derived from the vegetable productions with which there illands abound; for the fummer after the lower diltrict of Zutphen in Holland was gained from the lea, it was covered over with wild muftard. - All there illands are fubject to frequent and violent earthquakes, and abound in fulphur. We are not informed whether any lava is found upon them; but a party-coloured tone as heavy as iron, probably a lava, is mentioned as being found there. From this account it is by no means improbable that the copper above mentioned has been melted in forme eruption.

Beerino"s inland is fitnated eat from Kamefchatk in Serine ${ }^{\text {IT }}$ the 185 th degree of longitude; and Copper ifiand about inland and one degree more to the caltward, and in the latitude of dian idles. $54^{\circ}$ north. The former is from 70 to 80 vents long, and wretches from noth-welt to fouth-ealt in the fame direction as Copper inland. The latter is about 50 vents in length. About 300 verbs eaft-by louth of Copper inland lie the Aleutian ines; of which Arak is the nearest : it is rather larger than Beering's inland, and liretches from weft to fouth-eaf. From thence about 20 vert eallward is fituated Semithi, extending from weft to eat and near its extremity is another fall inland. To the forth of the trait which feparates the two later iflands, and at the diflance of 40 verfts from both of them, lies Shimiya in a similar polition, and not above 25 verfts in length. All there inland lie between 54 and 55 degrees of north latitude.

The Fox illands are lituated ealt-north-ealt from the Fox islands: Aleutians: the nearelt of the fe, Atchak, is about 800 verity distant ; it lies in $56^{\circ}$ north latitude, and extends from weft-fouth-weft towards eaft-north eat. It greatly refembles

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Kamertat refembles Copner illand, and is provided with a com-
$\underbrace{1,2 .}$ modi. us harbour on the north. From thence ail the other itlands of this chain fretch in a diregion towards northecan by eaf. The next to Atchak is Amiak, and Whout 15 verls diftant; it is nearly of the fame lize, and has a harbour on its fouth fide. Next follows Sang:uramak, at ahout the fame dillance. but fumerrhat linaller; from thence is 50 verfs to Amuehta, a fnall ruty itland; and the latter to Yunakfan, ar.other fmall iflard. About 20 rerits from Yunakim there is a clufter of five frnall illands, or rather nountains, Kigalgitt, Kaganila, Trigulac, Ulaga, and Tena Unok; and which are therefore called by the Rufians Pat Suple, or the Five Mountains. Oit thefe Tana-Cruk lies moil to the north.eaft, towards which the .weftern point of Umnak advances within the diffance of 20 verits.

Umnali fleetches from fouth-weft to rorth-ea? ; it is 150 vertts in length, and has a very confideratle bay ou the wett cnd of the northern coalt, in which there is a fimall ifland, or rock, called Adiugak; and on the fouth lide Shemalga, arother rock. The wellern point of Aghunalallika, or Unalafika, is feparated from the eaft end of Umank by aftrait near 20 verfs in breadtl. The polition of thefe two illands i, fimilar ; but Aghunalalika is much the larget, and is above 200 verfts long. It is divided towards the northcaft into three promontories, one of which runs cut in a wefterly direction, forming one fide of a large bay on the morth coaft of the illand: the fecond firetches out north-eaft, ends in three points, and is connected with the illand by a !mall neck of land. The third, or moll foutherly one, is feparated from the lat mentioned promontory by a deep bay. Near Unalahka towards the eaft lies another frall illand called Shirkin. About 20 verlfs from the north-eaft promoutory of Aghunalallak lie four iflands: the firlt, Akutan, is about half as tig as Umnak; a verlf further is the fmall iliand A. kun; a little beyond is Akunok; and lafty, Kigalga, which is the fmallen of thefe four ; and Atretches with Akun and Akunok almoft from north to fouth. Kigalga is fituated about the $611 t$ degree of latitude. About :00 verfls from thence lies an ifland called Unimak, upon which a Ruflian navigator (Captain Krenitzin) wintered; and beyond it the inhabitants faid there was a large trait of country called Ala/ßka, of which they did not know the boundaries.
'T"e Fox iflands are in general very rocky, without containing any remarkably high mourtains : they are denitute if wood; but abound in rivulets and lakes, with are motlly without finh. The winter is much milder than in Siberia; the fnow feldom falls before the beg.nning of Jinuary, and continues on the ground till the end of March. There is a rolcano in Amuchta, and fulnhur is prod ced on ancther illand; in fome others a:e fpriugs ho enough to bail provifions. SulIhurenus ilames are alfo fomet:mes feen at night upon th. An urtains of Unalaflika and Akutan.

The Fox illand are toler thy porulous in proportion to their lize. The inhabitants are entirely free and p.- -ritute to no one; they are of a niddle siature, and live, both in fummer and winter, in holes dug in the earth. No figns of religion "ere found among them. 'ieveral perions indeed pafs for forcerers, preteriding to know things paft and to come; and are
accordingly bed in high efteem, but without reeeiving Kamtch any emoiment. Filia! duty and refpect towards the aged are not heid in eftimation by thele illa:ders. They are not, however, deficient in fidelity towards each ocher; they are of a lively and cheerful temper, though rather impetuots, and natarally prone to anger. In gener in, they do not obferve muy ruls of diceney; but fuliow all the calls of nature paticse a I without the leaf referve. Their primipa! tood conints in fill, and other fea animais, fuall !! ell fith, and fea plau:s; their greatelt delicacics are wild lilies and uther roots, together wita different kind, of berries. When they lave laid in a fore of provilions, they eat at any rime of the day without diftinction; but in cale of necelify, they are capaole of fatting feveral days together. 'liney feldom heat their d"eilings: bat when they are defirou, of warming themfelves, they light a bundle wi hay, and fand over it ; or elfe they fet lire to train oil, whicin they pour irto a hollow fone. They feed their ch:1dren when very young wirla the coarle d neth, and for the molt part raw. If an infant cries, the mother immediately carries it to the fea inde, and, be it fummer or winter, holds it naked in the water until it is quiet. This cultom, it is faid, is fo far from duing the children any harm, that is hardens them againit i.se cold; and accordingly they go barefoated throw, the winter without the leat inconvenience. They are alio trained to bathe frequently in the fea; and it is an opinion generally received among the illanders, that by thefe means they are rendered bold and fortuatie in fifhing.

The men wear lhirts made of the finins of cormorants, fea-divers, and gulls; and in order to keep out the rain, they have upper garments of the bladuers and other inteflines of fealions, fea-calves, and wha'es, blown up and dried. They cut their hair in a circular form quite clofe to their ears; and thave allo a round place on the top. The women, on the contrary, let the hair defeend over the forehead as lo:v as the eyebrows, and tie the remaining part in a knot upon the top of the head. They pierce the ears, and hang in them bits of coral, which they get from the Ruflians. Both fexes make holes in the grifles of their noles, and in the under lips, in which they thruft pieces of bone, and are very fond of fuch kind of ornaments. They mark alfo and colour their faces with different fgures. They barter among one another fea-otters, fea-bears, clothes made of birds ikins and of dried inteftines, fkins of fea-lions and fea-calves for the coverings of their canoes, wooden malks, darts, thread made of finews and hair of rein deer.

Their houiehold utenfils are fquare pitchers and, large troughs, which they make out of the wood driven ahore by the fea. Their weapons are bows and arrows pointed with tint, and javelins of two yards in length, which they throw from a fmall board. Inftead of hatchets, they ufe crooked knives of lint or bone. Some iron knives, hatchets, and lances, were obferved among them, which they had probably got by plundering the Ruflians.

According to the reports of the oldeft inhabitants of Umnak and Unalafhka, they have never been engaged in any war, either amongt themfeives or with their neighbours, except with the people of Alafika, the occation of which was as follows: The lon of the
toigon

## K A M

Extchat toigon or chief of Umnak had a maimed hand; and
that ifland. faltened to his arm a drum, out of mockery,
and invited him to dance. The parents and relations of the boy were offended at this infult: hence a quarrel enfued; and from that ti:ne tbe people have lived in continual enmity, attacking and plundering each other by turns. According to the reports of the iflanders, there are mountains upon Alalika, and woods of great extent at fome ditance from the coant. The natives wear clothes made of the finins of rein deer, wolves, and foxcs ; and are not tributary to any of their neighbours. The inhabitants of the Fox iflands feem to have no knowledge of any country beyond Alaftka, which is one of the moft ealterly iflands yet difovered in thefe feas, and is probably not far diftant from the cortinert of America.

Feafts are very common among thefe iflanders; and more farticularly when the inhabitants of one illand are vilited by thofe of the others. The men of the village weet their guefts, beating drums, and preceded by the women who fing and dance. At the conclufion of the dance, the hofts invite thern to partake of the feafts; after which ceremony, the former return firf to their dwellings, place mats in order, and ferve up their belt provision. The guefis next enter, take their places, and, after they are fatisfied, the diverfions begin. Firf, The children dance and caper, at the fame time making a noife with their fmall drums, while the owners of the huts of both fexes fing. Next, The men dance almoft naked, tripping after one another, and beating drums of a larger fize: when thefe are weary, they are relieved by the women, who dance in their clothes, the men contiuuing in the mean time to fing and beat their drums. At laft the fire is pui out which had been kindled for the ceremony. The mamner of obtaining fire is by rubbing two pieces of dry wood againft each other, or moft commonly by friking two flints together, and letting the fparks fall upon fome fea otters hair nised with fulphur. If any forcerer is prefent, it is then his turn to play his tricks in the dark; if not, the guefts immediately retire to their huts, which are made on that occafion, of their cances and mats. The natives who have feveral sives do not withhold them from their guefts; but where the owner of the hut has himfelf but one wife, he then makes the offer of a fenale fervant.

Their hunting feafon is principally from the end of October to the beginning of December; during which time they kill great numbers of young fea bears for their clothing. They pals all December in feaftings and diverfions limilar to thofe above mentioned : with this difference, however, that the men dance in wooden mafks, reprefenting various fea animals, and painted red, green, or black, with coarfe-coloured earths found upon their illands.

During thefe feltivals, they vifit each other from village to village, and from illand to illand. The fealts concluded, malks and drums are broken to picces, or depofited i:s caverns among the rocks, and never afterwards made ufe of. In furing, they go out to kill old fea bears, fea lions and whales. During fummer, and even in winter when it is calm, they row out to fea, and catch cod and other fith. Their hooks are of bone; and for lines they make ufe of a fring made of a long
ten cious fea sreed, which is fometimes found in thofe feas, near 160 , arcis in length.

Whenever they ars wounded in any cacounter, or bruifed by any accident. they apply a fort of yellow root to the wound, and falt for fome time. When their head aches, they open a vein in that part with a ftone lancet. When they want to ghe the points of their arrows to the finafts, they frike their nofe till it blecds, and ufe the blood as glue.

Murder is not punilhed among them; for they lave no judge. The following ceremonies are uled in the berial of the dead. 'The bodies of poor people are wrapped up in their own clothes, or in mats; then Iaid in a grave, and covered over with earth. The bodies of the rich are put, together with their clothes and arms, in a fmall boat made of the wood driven afhore by the fea: this boat is hung upon poles placed crofswife; and the body is thus left to rot in the open air.

The cuftoms and manners of the inhabitants of the Aleutian illes are nearly fimilar to thofe of the inhabitants of the Fox illands. The former indeed aze rendered tributary and entirely fubject to Rulfia; and moft of them have a flight acquaintance with the Rufian language, which they have leamed from the crews of the different vefiels who have landed there.

KAN, or Khas, the name of an officer in Perfia, anfwering to that of governor in Europe.-There are kans of provinces, countries, and cities, who have different additions to dilfinguilh them.

KANGUROO. See Didelphis, Mamalia Index.

KANISCA, a very ftrong town of Lower Hungary, capital of the connty of Selawar. It was taken by the ImperialiRs in 1690. It is feated on the river Drave, in E. Long. 17. 37. N. Lat. 46. 23.

KAN-TCHEOU-FOU, a flouridhing town of China, in the province of Kiang-fi. Its rivers, port, riches, and population, all contribute to attract itrangers. A day's journey from this city is a very rapid current, almoil 25 leagues in length, which flows with great impetuolity over a number of fattered rocks that are level with the water. Travellers here are in great danger of being loit, unlefs they take care tc be conducted by one of the pilots of the country; after this pallage, the river becomes twice as large as the Seme at Rouen; it is comtinually covered with loaded barks and other veffels under fail.-Near the walls of the city is a very long bridge, compofed of 130 boats joined tugetler by frong iron chains. The cuftomhoufe is upon this bridge, where a receiver conftantly refides to vilit all reffels, and examine if they have paid the duties impofed on the commodities with which they are loaded. Two or three moveable boats are fo placed, that by their means the bridge can be opened or fhut, to give or refufe a paflage; and no barks are ever permitted to pafs until they have been examined. In the territory belonging to this city, a great number of thole valuable trees grow, fiom which varnils dillills. Its ditriet is extenfive, and contains 12 cities of the third clafs.

KAOLIN, the name of an earth which is ufed as one of the two ingredients in oriental porcelain. Some of this earth was brought from China, and esamined by Mr Reaumur. He found that it was perfectly in-

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Narut- fufible by fire, and believed that it was a talky earth; chouk

Fareck. but Mr Macquer obferves, that it is more probably of an argillaceous hature, from its forming a tenacious
pafte with the other ingredient called pelunfe, which has no tenacity. Mr Bomare fays, that by analyzing fome Chinele kaolin, he found it was a compound earth confifting of clay, to which it owed its tenacity ; of calcareous earth, which gave it a meally appearance; of fparkling cryftals of mica: and of fmall gravel, or particles of quartz cryftals. He fays, that he has found a fimilar earth upon a flratum of granite, and conjectures that it may be a decompofed granite. This conjecture is the more probable, as kaolins are frcquently found in the neighbourhood of granites. Sce Porcelain.

KaOUTCHOUK. See Caoutchouc, Cnemistry Index.

KARAites. See Caraites.
karat. See Caract.
KARECK, an ifland in the Perfian gulf, which was once fubject to the Dutch. It was wifited by Mr Ives in 1758 . He found the fouth part of the ifland well cultivated, with agreeable fields of corn, and producing plenty of efculent vegetables. In the middle are very high hills abounding with a variety of fhells. Some fragments torn from their fides afforded an opportunity of obferving an immenfe quantity of oyfters, fcallop, cockle, and other fhells. The common tree here is the banian, but without thofe luxuriant hoots, which in fome other places go downward and take zoot in the ground. The lavender cotton is alfo found here; and the ifland abounds with fowl of various kinds. Pearl oytters are alfo found, but at confiderable depths.

This fettlement was founded by Baron Kniphaufen, Tho having left the Pruffian fervice on fome dilguft, entered into that of France, afterwards went to the Ealt Indies, and was appointed refident to the Dutch factory at Bafiora. Here he became an object to the avarice and rapacity of the Turkifl governors; who having got him accufed of capital crimes, he was at laft glad to compound with them for 50,000 rupees, the whole fum he was worth, befides giving directions how they might fqueeze other 50,000 from his fucceflor in office (who in truth wihed him turned out) and the banian who did the bufinefs of the Dutch factory, and who had likewife been concerned in underhand practices againft him.

The new refident was overjoyed at his accelfion, but lof all patience when he found hinnfelf obliged to pay 30,000 rupees to the governor as a compliment on his entering into a polt of fuch confequence. Nor had the barian much better reafon to be fatisfied, being obliged to pay down 20,050 rupees to make up the fum which was to fatisfy the rapacity of the governor.
Baron Kniplicufen failed from Baffora the very day after he was fet at liberty; but having landed on this illand, he, in conjunction with an Arabian fleick, formed the plan of the fetllement. He then carried a letler from the theick to the governor and council of Batavia, in which the former propofed to give up the fovereignty of the illand. Before fetting out for this place, however, the haron took cate to defyatch a meffenger acrofs the defert to Conflantimople,
acquainting the Dutch ambaffador with the treatment he had received, and requelting liberty of the grand vilier for the Dutch to fettle at Kareck. The meffenger returned with a favourable anfwer before the baron came back from Batavia. The governor of Bafiora, then, having attempted in vain to periuade him to return to that place, wrote a letter of complaint to Batavia, acculing the baron in terras of the utmoft exaggeration, but without any nention of the 100,000 rupees. The baron, however, having got incelligence of this proceeding, ufed fuch diligence that he got back to Batavia in the very fhip which carried the letter. Being thus prelent on the fot to anfwer the charges brought againit him, he acquitted hinifelf fo well that his licheme was inilantly approved of, and he was fent. oack with two hhips and 50 men to take poffeffion of Kareck, whole inlrabitants at that time amounted to no more than 100 poor fifhermen.

Confiderable difficulties now occurred in the eflablihhment of the new colony; for he had but very fcer materials with him, and the govermment of Batavia was very flow in fending him the fuccours they had promifed. He was therefore obliged to fend for work. men from Perfa and Arabia, with whofe alfittance he built a frmall compact fort, flrong enough to defend itfelf againtt any of the country powers, and any fhips ufually failing to India, excepting thofe of our Ealt India Company. Nor was he content with putting himfelf in a poifure of defence, but even commenced hoflilities againft the Turks; and by detaining iwo veffels very richly laden, which happened to touch at the illand, he at laft obliged the governor of Baflora to pay back the 100,000 rupecs he had extorted, 30,000 of which he reffored to his fucceffor in office at Baffora, and 20,000 to the banian. When Mr Ives vilited him, he informs us, that furpriling progrefs had been made during the little time the baron had held the fovereignty of the illand, and that he intended to make it a ftrong and weathy place; at the fame time that he diccovered his tafte for literature by advancing a fum of money for books and inftruments of various kinds, which were afterwards punctually fent. After that time, however, the baron quitted the fervice of the Dutch; and the illand is again in poffefion of the theick of Bundaric, to whom it formerly belonged. It is about five miles long and two in breadth; lying nearly in the middle of the Perfian guti, about feven leagues from each fide, and about 30 leagues from the mouth of Baflora river, where all hips bound to that port mult call for pilots.

KARLE, a Saxon word ufed in our law, fometimes fimply for a man; and fometimes, with an addition, for a fervant or clown. Thus the Saxons call a feaman bufcarli, and a domeftic fervant hufcarle. From hcuce comes the modern word churl.

KARMATIANS, a feet of Mohammedans, who occafioned great diforders in the empire of the Arabs. Sce Bagdin, $\mathrm{N}^{\circ} 49$.

KARNAC , the name of a village near Thebes in Upper Egypt, and built on a fmall part of the fite of a fingle templ:, the circumference of which, it is faid, it would require half an hour to walk round. The ruins of this temple, which are yet vifible, feem to indicate, according to Derion, that it was the larrell in the would ; and he thinks it mrobably, that the tre of

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Kafu. Katnac, as well as that of Luxor, was builh in the time ॥ of Seforsis, when Egypt was in the highen degree of profperiy. The plan of this temple is faid to be noble and grand ; but Denon fuppofes that the embellilimonts were added long after the building of the temple, as they exlibit a more correct and chafte fyle. The portco alone is compofed of 100 columns, the fmalleft of which are not lefs than $7^{\frac{1}{2}}$ feet in diameter, and the Jargeft 12.
$\mathrm{K} A S S O N$, a populous kingdom in the north of Africa, the metropolis of which lies in N. Lat. 14. $33^{\circ}$ W. Long.. 8. 4.3. The king of the country was extremely kind to Mr Park, although his fon plundered lim in a very thocking manner. He fays that the number of towns and villages, and the extenfive cultivation around them, exceeded every thing he had then feen in Africa. A grols calculation may be formed of the number of inhabitants in this enchanting plain, from confidering that the king of hafon can raife 4000 fighting men by the found of his war drum. It is remarkable, that although the people poffefs abundance of corn and cattle, both high and low make no feruple of eating rats, moles, fquirre!s, fnails, and locufts. What is perbaps no lefs fingular, the women of this country are not allored to eat an egg, although they are ufed by the now without any fcruple in the prefence of their wives.

The methad of converting the negroes to the religion of Mahomet is worthy of notice. Mr Park aflures us that he faw the whole inhabitants of Teefee, a large unwalled town of Kaflon, inftantly converted. While he refided in that town, an embafly of 10 people belonging to Almami Abdulkader, king of Foota Torra, a comntry to the well of Bondou, arrived at Teefce; and detiring "liggity Sego the governor to call an aliembly ot the inhabitants, publicly made known the determination of their king-" that unlefs all the peopie of Kaffon would embrace the Mohamedan religion, and evince their converfon by faying cleven public prayers, he (the king of Foota Torra) could not poflibly ftard neuter in the prefent conteft, but would certamily join his arns to thofe of Kajaaga." Such a meflage from fo poicnt a prince created great alarm; and the inhabitants, after deliberating for fome time, agreed to conform themfelves to his will and pleafure, renouncing Paganifm and embracing the doctrines of the falfe prophet.

KAStkll, or Fiestrif, a fpecies of falcon. Sec Fatco. Ornithology Index.

KATTEGATTE, a noted fea, lying between part of lutland and the coaft of Sweden, and towards the latter covered with a great number of ifles. It is almoft clofed at the extremity by the low Danih illands of Sealand and Funen, which had in oid times been (with Sneden) the feat of the Suioncs. Boween the firf and the coall of Sweden is the famous found, the paflage tributary to the Danes by thourands of thips. Thefe ittands vere of old called Codonania, and gave to the Kattegate the name of Sinus Corionanues. Its greateft depth is 35 fathoms. It decreates as it approaches the found; which begins with $t 6$ fathoms, and near Copennagen fhallows to ewen four. The Roman fleet, under the command of Germanicus, failed, according to Pliny, round Germany, and cven doubled the Cimbricum Promentorium, and arrived at the iflands which fill the bottom of the Kaitegatte: cither hy ob-

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fervation or information, the Romans were acquainted with 23. One they called Glefforia, from its amber, a foflil abundant to this day on part of the fouth fide of the Baltic. A Roman knifht was employed by Nero's mafter of the gladiators to collect in thefe parts that precious production, by which he lecame perfectly acquainted with this country.

KAUFFBEUREN, a free and imperial town of Germany, fituated on the river Wardach, in E. Long. 10. $53 . \mathrm{N}$ Lat. 47. 57.

KAY, Quay, or Key. Sce Key.
KAZY, in the Eart indies, a Mahometan judge or magifrate; appointed oricinally by the court of Dellai to adminilerjufice according to their written law; but particularly in matters relative to marriages, the fales of houfes, and tranfgreflions of the Koran. He attefts or authenticates writings, which under liss feal are admitted as the originals in proof.

KEATE, George, Eso. F.R.S. an eminent Englif writer, was born in 1730 , and educated at Kingiton fohool, after which he went to Geneva, wherc he refided for fome years, and became acquainted with M. Voltaire. When he made the tour of Europe, he became a fudent in the Inner Temple, was called to the bar, but did not meet with fuch encouragement as to induce him to perfevere. In the year 1760 he publihed his Ancient and Modern Rome, a poem which was received with confiderable applaufe, and the following year he gave the warld A fhort Account of the Ancient Hitory, prefent Government and Laws of the Republic of Geneva, 8 so. dedicated to Voltaire, who once intended to tranilate it into French, but afterwards ahandoned his defign.

In 1762 he produced an Epille from Lady Jane Gray to Lord Guildford Dudley ; and next year the Alps, a poem, believed to be the belt he cver wrote, for truth of defcription, rigour of fancy, and beauty of verfification. In 1764 appeared Netley Abhey, and in 1765 , The Temple Student, an Epitlle to a Friend, in which he rallies his own want of application to the ftudy of the law, and his confequent want of fuccefs in that profeftion. In 1766 he publifhed a poem to the memory of Mrs Cibber, of whofe talents as an actrels he entertained a very high opinion. He married in ${ }^{3} 759 \mathrm{Mifs}$ Hudion, and about the fame periud he publinhed Ferney, an Epillle to Voltaire. Having praifed with energy the beauties of that philofopher's poetical works, he introduces a grand panegyric on the im. mortal Shakefpeare, whom Voltaire ufed every effort to depreciate, probably from a feirit of envy. This eulogium made the mayor and burgefles of Stratford prefent gur author with a ftandifi mounted with filver, made out of the famous mulberry trec which Shakefpeare liad planted.

In 1775 appeared bis Miomument in Arsadia, a dramatic poem; and in 1779 he publiflasd his Sketches from Nature, taken and coloured in a Journcy to Margate, jufly allowed to be an elegant compofition. In the year 1787 came out The Diffrefied Poct, a feriocomic poem, in three cantos, occationed by a long and vexatious law-fuit. His laft work was perhaps the mof honouraille of the whole, botls to his head and to his heart. Captain Willon of the Antelope packet having fuffered ihipwreck on the Pelew inlands, was refufed any farther command, and reduced to diftrels, which induccd the humane keate to publinı an account

Kaufle
beuren
Keate.

## K E E

Kebla of thefe inlands for the benefit of that gentleman, which, of a year. This work is written with much elegance,
although it is probable the amiable part of the manners of the natives of Pelew is fomewhat highly coloured.

The life of this poet was fpent without any vicifitudes of fortune; he was poflefled of a very ample cftate, which he never attempted to increafe but by prudence in the menagement of it. He was a man of beneficence and hofpitality, and enjoyed the favour of mankind in a very high degree. His health had been gradually declining towards the clofe of his life. He died in June 1597 , leaving one daughter.

KEBLA, an appellation given by the Mahometans to that part of the world whese the temple of Mecca is fituated, towards which they are obliged to turn themfelves when they pray.

KEDAR, in Ancient Geography, a difrict in the defert of the Saracens (fo called from Cedar , the fon of Ithmael, according to Jerome, who in another place fays that Kedar was unishabitable, on the north of $A$ rabia Felix. Kedarcni, the people; who dwelt in tents like the other Scenites (Pfalm cxx.), were rich in cattle (Ifaiah lx.), of a fwarthy complexion (Canticles i.), and excellent at the bow (Ifaiah xxi.).

KEDES, in Ancient Geography, a city of refuge and Ievitical in the tribe of Naphtali, on the confines of Tyre and Galilee; (Jofephus). Jerome calls it a facerdotal city, fituated on a mountain 20 miles from 'Iyre, near Puneas, and called Cidiffus; taken by the king of Affyria.- Another Kedes in the tribe of Illachat (i Chron. 1i. 72.) which feems to be called Kifhion (Jofhua six.)

KEDGE, a fmall anchor, ufed to keep a hip fteady whillt fhe rides in a harbour or river, particularly at the surn of the tide, when the might otherwife drive over her principal archor, and entangle the flock or flukes with her llack cable, fo as to loofen it from the ground. This is accordingly prevented by a kedge rope that hinders her from approaching it. The kedges are particularly ufeful in tranfporting a fhip; i.e. removing her from one part of the harbour to another, by means of ropes which are faftened to thefe anchors. They are generally furnihed with an iron ftock, which is eafily difplaced for the convenience of fowing them.

KEDRON, or Cedrox, in Ancient Geograply, a town which, from the defeat and purfuit of the Syrians (1 Mac. svi.), appears to have ftood on the road which led from the Higher India to Azotus: in this war it ous burnt by the Jews.

Krpros, or Cedron, in Ancient Geograplay. St John calls it a brook, but Jofephus a deep valley between Jerufalem and Mount Olivet to the eaft ; callcd alfo Kearon from its blacknefs. A brook only in winter, or in rainy weather, according to Maundrel.

KEEL, the principal piece of timber in a mip, $\because h i c h$ is ufually firft laid on the blocks in building. If we compare the carca?s of a thip to the fieleton of the humen body, the keel mav be confidered as the back bonc. and the timbers as the ribs. It therefore fuppoits and unites the rbole fabric, fince the flem and ftern porf, which are elevated on its ends, are in fome mealure a continuation of the keel, and ferve to consect and enclofe the extremities of the fides by tran-
foms ; as the keel forms and unites the bottom by timbers.

The leel is generally compoied of fe: eral thick pieces placed lengthwife, which, after being farfed together, are bolied, and clenched upon the upper fide. When thefe pieces cannot be procured large enough to afford a fufficient depth to the keel, there is a 1trong thick piece of timber boited to the bottom thereof, ctilled the falfe keel, which is allo vary lieful in preferving the lower fide of the main keel. In our largeft foips of war, the falle keel is generally compofed of two pieces, which are called the upper ard the lower falfe kcels. See Midsinip. Frame.

The lowelt plark in a Mip's bottom, called the gaf-board-jtreak, has its inner edge let into a groure or channel cut longitudinally on the fide of the keel : the depth of this channel is therefore rcgulated by the thicknefs of the garboard flreak.

KeEL is alfo a name given to a low flat-bottomed reffel, ufed in the river Tyne to bring the coals down from Newcaftle and the adjacent parts, in order to load the colliers for tranfportation.

Kerl-Hauling, a punifhment inflicted for rarious offences in the Dutch nary. It is performed by plunging the delinquent repeatedly under the hip's bottom on one fide, and hoiffing him up on the other, after having paffed under the kecl. The blocks or pullies by which he is fufpended are faftemed to the oppofite extremities of the main yard, and a weight of lead or iron is hung upon bis legs, to fink him to a competent depth. By this apparatus he is drawn c!ofc up to the yardarm, and thence let fall fudderly into the fea, where, paffing under the fhip's bottom, he is hoifted up on the oppofite fide of the veffel. As this extraordinary fentence is executed with a ferenity of temper peculiar to the Dutch, the culprit is allorsed fufficient intervals to recover the fenfe of pain, of which indeed he is frequently deprived during the operation. In truth, a temporary infenfibility to his fufferings ought by no means to be corltrued into a difrefpect of his judges, when we confider that this punifhment is fuppofed to have peculiar propriety in the depth of winter, whilft the Hakes of ice are Hoating on the fiream; and that it is continued till the culprit is almoft fuffocated for want of air, benumbed with the cold of the water, or flunned with the blows his head receives by friking the misps bottorn.

KEELSON, a picee of timber which may be properly defined the interior or counter part of the keel; as it is laid upon the middle of the floor timbers, immediately over the keel, and like it compofed of leveral picces feasfed together. In order to fit with more lecurity upon the foor timbers and crotches, it is notched about an inch and a half deep, oppofite to each of thofe pieces, and thereby firmly fcored dorn upon them to that depth, where it is fecured by rpikenails. 'The pieces of which it is formed are only hal the breadth and thicknefs of thofe of the keel.

The keelfon ferves to bind and unite the hoor-timbers to the keel. It is confined to the keel by long tolis, which, being driven from without through fereral of the timbers, are forelocked or clenched upon rings on the upper fide of the keelfon.

KEEPER of THE GREAT SEAL, is a lord by his office,

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Sceper office, and tiyled lord keeper of the great feal of Great Britain; he is always one of the privy council. All grants, charters, and commiffions of the king under the great feal, pafs through the hands of the lord keeper; for nithout that feal many of thofe grants, \&c. would be of no force, the king being, in the interpretation of the law, a corporation, and therefore pafics nothing but by the great leal, which is alfo faid to be the public faith of the kingdoa, being in the highen efteen and reputation.

Whencver there is a lord keeper, he is invelted with the fame place, authority, pre-eminence, jurifdiction, or execution of larrs, as the lord chancellor of Great Britain is vefted with.

The lord keeper is confituted by the delivery of the great feal, \&ic.

Keeper of the prizy foal, is allo a lord by his office, through whofe hands all grants, pardons, \&c. pals before they come to the great feal ; and even fome things pafs his hands which do not pafs the great feal at all. This officer is alfo one of the privy council, yet was anciently called clork of the priziy feal. His duty is to put the feal to no giant, \&ec. Without a proper warrant ; nor with warrant where it is againft law, or inconvenient, but hall firft acquaint the king therewith.

KEEPING, in Painting, denotes the reprefentation of objects in the fame manner that they appear to the eye at different aillances from it ; for which the painter hould have recourfe to the rulcs of perfpective. There are two intlances in which the famous Raphael Urbin las tran!grefied thefe rules: in one of his cartoons, reprefenting the miraculous draught of fifhes, the men in each of the two boats appear of full fize, the features of their faces being Arongly marked; and the boats are reprefented fo fmall, and the men fo big, that any one of them appears fufficient to link either of the boats by his orm bare weight: and the forls on the those are alfo drawn fo big, as to feem very near: the cye of the obferver, who could not pofibly, in that cafe, didinguih the features of the men in the diflant boats. Or, fuppofing the obferver to be in either of the boats, he could not fee the eyes or beaks of the fowls on the fhore. The other inflance occurs in his biftorical picture of our Saviour's transfiguration on the mount ; where he is reprefented with thofe who were then with him, almoft as large as the reft of his difciples at the foot of the mount, with the father and mother of the boy whom they brought to be cured; and the mother, though on her knees, is more than balf as tall as the mount is high. So that the mount appcars oni!y of the lize of a lizile hay-rick, with a few people on its top, and a greater number at its bottom on the ground; in which cafe, a fpectator at a little ditlance could as well dilfingulth the features of thofe at the top as thore on the ground. liat upon any large eminence, deferving the name of a mount, that wowld be ruite impofible.

KEHL , or KLIL, a very iniportant forterfs of Germany, feated on the banks of the Rhinc, built by the French after a defign of Marliaal V'ubars tor the defence of Stral*'s, from which it is a mile ard a balf diffant. It was coded to the empore in 1597 , by the treaty of Ryfisick. The F-roch retock is in 1703 , and it was sefored to the empire by the traty of Raf.
tadt. During the time of the Frencis revolution, this $\mathfrak{K}$-ilt, fortrefs changed mafters feveral times; but after \& Sos, heifiari ${ }^{3}$. it was demolifhed in terms of the treaty of peace. E. Long. 7. 45. N. Lat. 48. 42.

KElILL, DR Jons, a celebrated aftronemer and mathematician, was born at Edirburgh in 1671 , and fludied in the univerfity of that city. In $169+$ he went to Oxford ; where, being admitted of Baliol college, he began to read lecturcs according to the Newtonian fyfem in his private chamber in that college. He is faid to have been the firll who taught Sir Ilaac Newton's principles by the experiments on which they are founded : and this, it feems, he did by an apparatus of intlruments of his own providing, by which means he acquired a great reputation in the univerfity. The firft fpecimen he gave the public of his faill in mathematical and philolophical knowledge, was his Examination of Dr Burnet's theory of the earth, with Remarks on Mr Whifton's theory : and thefe theories being defended by their refpective inventors, drew from Mr Feill An Examination of the retlections on the theory of the earth, together with $A$ defence of the remarks on MIr Whifton's new theory. In 1-01, he publithed his celebrated treatife, entitled, Introductio ad veram ohyform, which only contains it lectures; but in the following editions he added two more. This work has been tranflated into Englif, under the title of An introduction to natural philofophy. Afterwards, being made fellow of the Royal Society, he publifbed, in the Philofophical Tranfactions, a paper of the laws of attraction; and being offended ai a palfage in the ATG a ruditorum of Leipfic, warmly vindicated againtt Mr Leibnitz Sir Ifaac Newton's right to the honous of the firit invention of his method of fluxions. In 1709 he went to Ners Eriglind as treafurer of the Palatines. About the year 171 I , feveral objections being urged againft Sir "faac Nerstou's philofophy, in fupport of Des Cartes's notions of a plenum, Mr Keill publithed a paper in the Philofophical Tranfactions on the rarity of matter, and the tentity of its compofition. But while he was engaged in this difpute, Queen Anne was pleafed to anpoint him her decypherer; and he continued in that place under King George I. till the year 1716. He had allo the degree of doctor of phyfic conferred on him by the univerfity of Oxford in 1713 . He died in 1721 . He publihhed, befides the works already mentioned, Introductio ad veram aftronomiam, which was trannated into Englifh by Dr Keill himfelf; and an edition of Commandinus's Euclid, with additions of his own.

Keill, fomes, M. D. an eminent phyfician, and brother of the former, was born in Scotland about the year 1673 ; and having travetled abroad, read lectures of anatomy with great applaufe in the univeruaties of Oxford and Cambridge, by the latter of which he had the degree of doctor of phylic conferred upon him. In 1700 he fettled at Northampton, where he had confiderable fractice as a phyfician ; and died thire of a cancer in the mouth in 1719 . He publinged, 1. An Englith tranflation of Lemery's chemiftry. 2. An accourt of animal fecretion, the quantity of blood in the human body, and mufcular motion. 3. A treatile on anatomy. 4. Several pieces in the Plitofophical Tra. 'act?ons

KEIЬEKSBERG, a town of Alface in T:ance, 312
and

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Keier- and in the bailiwick of Haguenau, which has belonged Ravern to the French ever fince the year 1548 . It is feated Ke:th.
49. 10.

KEISERSLAUTERN, a town of Germany, in the Lower Palatinaie, belonging to the clector Palatine; feated on the river Louter, in E. Long. 7. j1. N. Lat. 49. 22.

KEISERTOUL, a town of Switzerlant, in the county of Baden, with a bridge over the Rhine, and a caltle. It belongs to the biflop of Conitance, and is fituated in E. Long. 8. 42. N. Lat. $47 \cdot 10$.

KELSER WERT, a town of Germary y in the circle of Weflphalia, the diocule of Cologne, and the duchy of Berg; fubject to the elector Palatine. The forinfications are oemolihed. It is leated on the Rhine, in E. Long. 6. 49. N. Lat. 5 т. 6.

KEITH, JAMFs-Fr.sicis-EDriard, field-marthal in the Pruftan fervice, was the younger fon of William Keith, earl marlhal of Scotland; and was born in 1696 . He was defigned by his friends for the law; but his incliation led to arms, and the firt occation of drawing his fword was at the age of 18 years, when the rebelion broke ont in Scotland. Through the inftigation of his mother, he joined James's party, was wounded at the battle of Sheriffmuir, and made his efcape to France. Here he applied biinfelf to military ftudies; and going to Midrid, he by the intereft of the duke of Liria obtained a commillion in the Irin brigades, then commanded by the duke of Ormond. He afterwards attended the duke of Liria, when he went ambafiador to Mufcovy; and being by him rccommended to the Czarina, was promoted to the rank of lieutenant-general, and invefted with the order of the black eagle. He dillinguilhed himfelf by his valour and conduct in the Rufian fervice, and had no incontiderable thare in the revolution that raifed Elizabeth the daughter of Peter the Great to the throne: he alfo ferved in feveral embaflies; but finding the honours of that country but a fplendid kind of nlavery, he left that court and entered the Pruffian fervice. The ling of Pruffia made him field-marlhal of the Pruffian armies, and governor of Berlin; and difinguifhed him f , far by his confidence, as to travel in difguife with him over a great part of Germany, Poland, and Hungary. In bufinefs, he made him his chief counfellor; in his diverfions, his chief companion. The king was much pleafed with an amufement which the marthal invented in imitation of the game of chefs. 'The marthal ordered feveral thoufand fimall Itatues of men in armour to be caft by a founder ; thefe he would fet oppofite to each other, and range them in batialia, in the fame manner as it he had been drawing up an army; he would bring out a party from the wings or centre, and fhow the advantage or difadvantage refulting from the different draughts which lie made. In this manner the king and the marfial often amufed themfelves, and at the fame time improved their military knowledge. This brave and experienced general, after many important fersices in the late wars of that illuttrious monarch, was killed in the snfortunate affair of Hochkirchen, in the year 175 S .

The family of Keith was among the moll ancient in Europe. In 1010 the Scots gained a complete victory over the Danes at Camus town in Angus;

King Malcolin II. as a reward for the fignal bravery Kellirgto of a certain young nobleman who purfued and killed Camus the Danila general, beftowed on him fremal lands, particularly the barony of Keith in Lat Lothian, from which his pofterity affumed treir furname. The king alfo appointed him hereditary great maretchal of Scotland, which high office continued in his family till the year 1715 , when the $1+1$ earl engaged in the rebellion, and foffeited his eatae and hoorours; and thus endec the tamily of Niarcichal, after ferving their country ia a ditinguilhed capacity above 700 yers.

KELLLNGTON, or KIMRHNMTON, a town of Cornwall in England, which fends t:8o members to parliament. W. Long. + 38. N. Lat. 52.30 .

KELLS, a borough tom of Iceland, in the county of Meath and province of Leinater, 31 miles from Dublin. This place gives title of vifcount to the family of Cholmondeley; and near it is Headtort, the magnificent feat of Lord Bective. This tom is pleafantly fituated on the river L3lackwater, and has four fais. It was anciently called Kenanus, and afterwards lienlis. In former ages it was one of the moft famous cities in the kingdom; and on the arrival of the Englith was walled and fortifed with towers. In 1178 a cafte was erected where the market piace now is; and oppofite to the caille was a crofs of an entire lane, crnanmented with bas-relief figures and many curious infriptions in the ancient Irifh charafer. Within a fmall ditlance was the church of St Senan; and on the fouth of the churchyard is a round tower which meafures 99 feet from the ground, the roof ending in a point ; and near the top were four windows oppofite to the cardinal points. There was a celebrated monaftery founded here in 550 for regular canons, and dedicated to the Virgin Mary. It owed its origin to St Columba, to whom the fite of the abbey was granted by Dermod Maccarval, or Dermod the fon of Kervail kinz of Ireland. An epifcopal fee was after:ards erected here, which in the $13^{\text {th }}$ century was united to that of Meath. A prio:y or hofpital was alfo crected by Wialter de Lacie, lord of Meath, in the reign of Richard I. for crofs-bearers or crouched friars following the order of St Auguitin. There was likewife a perpetual chantry of three priefts or chaplains in the parith church of St Columba in Kells to celebrate mal's daily; one in the Rood chapel, another in St Mary's chapel, and a third in the chapel of $\mathrm{Si} \mathrm{Ca}-$ therine the virgin.

Kells is alfo the name of a village in the county of Kilkenny, $6_{+}$miles from Dublin, lituated on Kings river; and was noted for a priory of Augultines, built and richly endowed by Geoffroy Fitzroberts, who came into this kingdom with Strongbow. The prior of this place had the title of lord foirituai, and as fuch fat in the houfe of peers before the Reformation; the ruins only of this abbey now remain: a fynod was held in it anno 1552, when John Paparo, legate from Rome, made one of the numbe: of bilhops that were convened there at that time to fettle the affairs of the church.

There is a third place of the above name, fituated in the county of Antrim and province of Ulfter, 89 miles from Dublin.

KELL.Y, HUGH, an author of confiderable repute,

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He was the author of fix plays befides that a'ova: :wencioned.

KELP, a term which is ufed in Bititain th fignify the faline fubilance obtained by burning fea-weed, which is chienly employed in the manufature of green glaf. Difierent fpecies of fea-weed, belotiging to the ge:mus ficur, and order alsee, are cultivatal for this purpofe. Thefe plants are thrown on the rocks and hores in great abardance, and in the furumer momehs are raked together and dried as hay in the fun and wind, and afterward burat to the atles called betp. The procefs ot niaking it is thus: 'The rocks, which are dry at low water, are the beds of great quantitic; of fea-nced; which is cut, carried to the beacl, and dried: a hollosy is dug in the ground three or four feet wide; round its margin are laid a row of flomes, on which the lea-weed is placed, and fet on fire within, and quantities of this fuel being continually heaped upon the circle, there is in the centre a perpetual flame, from which a liquid like melted metal drops into the ho'low beneath: when it is full, as it commonly is ere the clufe of day, all heterogeneous matter being removed, the kelp is wrour!t with iron rakes, and brought to an uniform confitence in a fiate of fufion. When cool, it confolidates into a heavy dark-coloured aikaline fubftance, which undergocs in the glafis-houfes a fecond vitriication, and when pure alfunies a perfect tanfparency. See Sodi, Chemistry Intiex.

KELSO, a turn of Roxburghinire in Sicotiand, pleafantly fituated on the river Tisced, in WV. Long. 1. 20. N. Lat. 53. 38. Of this town Mr Fennant gives the following defcription. It is built much arter the manner of a Flemilh town, with a lquare and town-houfe. It contains abuut 2700 fouls, has a very conifiderable market, and great quantities of corn are fold here weekly by fample: :- The abley of Tyronenfians was a valt pile, and, to judge by the remainc, of ven:rable magnificence. The walls are ornamented with falle round arches, interfecting each other. Such interferions form a true Gothic arch; and may as probably have given rife to that mole as the arched ihades of aveaues. The fteeple of the church is a vaft tower. Thlis houfe was founded by David I. when earl of Cumberland. He fift placed it a: Selkirk, then removed it to Roxburgh, and finally, when he came to the crown, fived it here in $t 128$. Its revenues were in money about 20021. Scots a-year. The abbot was allowed to wear a mitre and pontifical robes; to be exempt fro:n epifcopal jurildiction, and permitted to be prefent at all general councils. The environs of Kelfo are very fine: the lands confift of gentle rifings, enclofed with hedges, and extremely fertilc. They have much reafon to boalt of their profpects. From the Chalkheugh is a fine view of the forks of the rivers, Roxburgh hill, Sir John Douglas's neat feat, and at a diftance Fleurus; and from Pinnacle hill is feen a valt extent of country, highly cultivated, watered with long reaches of the Tweed, well wooded on each margin. Thefe borderers ventured on cultivation much earlier than thofe on the weft and eaft, and have made great progrefs in every frecies of rural economy. 'Turnips and catbbages for the ufe of cattie cover many large tracts; and potatoes appear in valf fields. Much wheat is railed in

Keip,
Keliu.
land in 1739. His father, a gentleman of good family, having reduced his fortune by a fertes of unforeSeen mi: Sortunes, was obliged to repair to Dublin that be might endeavour to fupport himfel: by his perfonal indufiry. It iolerable frhool education was ail he could affor ! to his fon; who was bound an apprentice to a faymaker, and ferved the whole of his time with diif;erce and ficlity. At the exfirtion of his indencarec, be fet out fur London ts procure a livelihood hy lis butine?s; where he encounsered ail the diliculties a perion pour and without friends coull be fu'jec? to un his firt arrivat in town. Heppening, however, to becume acquainted with an azoorney, he was employed by him ia copyin and tranforibing; an occupation which he profecuted with fo much affiduity, that he is aid to have earned about threc guincas a-reek, a: income which, compared to his former y, ins, might be deemed afl eerit. Tised, kowever, of this drudyery, he foun after, about $i=52$, commenced author, and was intrulted rith the management of the Lady's Mureum, the Cuurt Magaziae, the Paolic Ledici, the Royal Chronicle, Oven's Weekly Poft, and fome other periodical publications, in which he wrote many original enirss and pieces of poetry, which extended his seputat:on, and procured the meeans of fubliftence for himillf, his wife to whom he was then lately married, and a growing fanily. For ieveral years after this perivi, be continued writing upon a variety of fubjects, as the accidents of the times chanced to call for the atfitance of his pen; and as during this period politics were the chief obje:ts of public attention, he employed himfelf in compofing many pamphlets on the important quettiurs then agitated, the greater part of which are now buried in oblivion. Among thefe, however, was a Vindication of Mre Pitt's Adminitration, which Lord Chellerfield makes honourable mentiun of in the fecond wolame of his leters. In $17 \sigma_{7}$, the Babler appeared in two pucket volumes, wiich had at firit been inferted in Owen's Weekly Chronicle in fingle papers ; as did the Memoi:s of a Minglalene, under the title of Lavia Milimay. About 1757 he was temptel by the fucceis of Charchill's Roffind to write fone ferictures on the performers of either theatre, in two pampillets, entitled Theppis, both which gave great offence to fome of the principal perfens at each houle. The tale:2ts for fauire, which he difplayed in this work, recommended him to the notice of Mr Garrick, who in the next year caured his fritt play of Falfe Delicacy to be acted at Drary Lane. It was received wihh great applaufe; and fom this time he cuntinued to write for the Itage with profit and fuccefs, until the taft period of his life. As his reputation increafed, he began to turn his thoughts to fome mode of fupporting his family lefs precarious than by writing, and for that purpofe entcred himfelf a raember of the Mitdle Tempic. After thee vegular 凡.eps had been taken, he was called to the bar in 179t, and his proliciency in the fludy of the lave affurted promifing hopes that he mighit nazke a dillinguihed figure in that pro eeffion. Mis fedentary courfe of dife had, however, by this time injured his health, and fubjected him to much af--tiictioni. Early in $\mathrm{I}_{27}$ an ablecly formed in his file, which after a few days illnefs put a period to his life.

## K E N

Fenpis the neighbcurhood, part of which is fent up the frith of Forth, and part into England. The ficeces hocre are very fine. The wool is fent into Yorkfhire, to Lin-
lithgow, or irto Abcrdecnßire, for the focking manufacture ; and fome is woven here into a cloth called plaies, and fold into England to be dreffed. Here is alfo a confiderable manufacture of white leather, chielly to fupply the capital of Scotland. A finc fone bridge of fix arches over the Tweed near its confluence with the Teviot, was in 1798 , carnied away by a hood. It bas fince been rebuilt.

KEIIPIS, TEOMAs, a pious and learned regular canon, was born at the village of Kemp, in the diocele of Cologne, in 1,80 ; and took his name from that village. He performed his fludies at Deventer, in the community of poor fcholars eftablifhed by Gerard Groot; and there made great progrefs in the Sciences. In 1399 , he entered the monatery of the regular canons of Mount St Agnes, near Swol, of which his brother was prior. Thomas à Fiempis there ditinguithed himfelf by his eminent piety, his refpect for his feperiors, his charity to his brother canons, and his continual application to labour and prayer. He lied in 1471, aged 90. The befl editions of his works, which conlfif of fermons, fipiritual treatifes, and lives of holy men, are thofe of Paris in 1649 , and of Antwerp in 1607 . The famous and well known book De linitatione Chrifi, which has been tranflated into almoft all the languages of the world, though it has almoft always been numbered amons the works of Thomas a Kempis, is alfo found printed uncuer the name of Gerfon; and on the credit of fome MSS. has been fince afcribed to the abbot Gerfon of the order of St Benedic. This has occafioned a riolent difpute between the canons of St Augutine and the Benedictimes: but rible devout, Chritians find firitual comfort in the work, the name of the writer is of fmall importance.

KEMPTEN, a free and inperial town of Germany, in Lower Suatia, and in Algow, and alfo in the territory of the abbot of Kempten, who is a prince of the empire, and has a roice in the diet. The inlabitants are Proteftants; and it has been feveral times taken, but has always recovered its liberty. It is feated on the river Iller. E. Long. 10. 33. N. Lat. 47. 47 .

Kemptex, a territory in the circle of Suabia, in Germany, betwecn the bilhopric of Aughurg and the barony of Valburg. It is about 17 miles long and broad ; and has no confiderable place but the towns of Kempten and Kauffbeuren, which are imperial.

KHN, THOMAS, an eminent Englith bilhop in the inth century, was bred at Winchefter fchool, whence he went to Oxford; and in 1669 was made a prebend of Winchefer. In 1675, the year of the Jubilee, he travelled to Rome; and ufed to Cay, He had reafon to give God thanks for his travels, baving returned more confirmed of the purity of the reformed religion than he was before. He was appointed by King Charles II. to attend the lord Dartmouth at the demolithing of Tangier; and at his return was made claplain to his majefty, as le was fome time after to the princefs of Orange, then reficing in Holland. In 1685 , he was confecrated bihop of Path and Wells. The month following be attended King Charles 11. at his death;
and gave clofe attendance at the royal bed for three whole days and nights, watching proper intervals to fuggefl piots and proper thoughts on that Cerious occation. In the following rcign lee zealounty oppoled the progrefs of Popery; and in June 1688, he, with five other bilhops and the archbiliop of Canterbury, was comminted prifoner to the Tower of London, for fubfcribing a petition to his maje:ty againft the declaration of indelgence. Uion the Revolution, however, he refufed to take tle oaths to King William and Queen Mary, on which account he was deprived of his biflopric. Her mejefty Qucen Anne beftowed on him a yearly penfion of 2021 , to his death in 1710 . He publifined feveral picus books. His charity was fo great, that when he was bilhop of Path and Wells, having received a fine of 4000 , he gave a great part of it to l ic French Proteliants.

KENDAL, a town of Wefmorland, feated in a valley among hills, on the weft fide of the river Can or Ken, over which there are two fone bridges, and one of wood which leads to the caftle now in ruins. It is a large handfome place; and has two long ftreets, which crods each other. The inhabitants have driven a trade with the cotton and woollen manufactory throughout England ever fince the reign of Edw. III. and paticular laws were enacted for regulating Kendal cloths as early as Richard II. and Fienry IV. It is of note alio for the manufactory of cottons, drug. gets, ferges, l:ats, worfied and yarn itockings, \&c. Queen Elizabeth incorporated it with aldermen and burgefles; and King James I. with a mayor, recorder, town clerk, 12 aldermen, 24 burgefles or common councilmen, and 2 attornies. There are 7 companies here who have each their hall, viz. mercers, fheermen, cordmainers, glovers, tanners, taylors, and pewterers. Here is an elegant town hall lately repaired; and they enjoy a court of confcience granted by George III. for debts under fos. It has a large beautiful church, whicn fands on the other fide of the brook called Elindbeck, out of the liberty of the town; a large, neat, and handfome buildirg, 180 feet long and 99 broad, with 5 ailles, each parted by a row of 8 pillars, and a ftrong fquare ftecple. Near it is Abbot's hall, the refidence of the abbot when this cluarch helonged to an abbey diffolved by Henry VIII. In 1755, a new chapel was erected in the middle of the town, befides which there are 12 chapels of cafe belonging to it. The Diffenters and Quakers have meeting houfes. Here is a free grammar fchool well endowed; and alfo a charity fchool for ro boys and 16 girls, who are all clothed as well as taught. Ealtward of the town, on the oppolite fide of the river, on a bill, from whence is a fine profpect, fand the ruins of a calle, wherein was born Catherine Parr (the fixth wife of Henry VIII.). By the late inland navigation, it has communication with the rivers Merfey, Dee, Ribble, Oufe, 'I'rent, Darwent, Severn, Humber, Thames, Avon, \&c. which narigation, including its windinge, extends above 500 miles in the countics of Iincoln, Nottingham. York, Lancaller, Chefter, Sialford, Wara ick, Leicefter, Oxford, Worceftcr, \&ic. Here arc kept the feffions of the peace for this part of the county called the barony of Ke endal ; and there is a very great market on Saturday, with all kinds of provifions and woo!len yarn, which the girls bring hither in large bundles.

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bundles. It has fairs on May 6, and November 8; and between them a great beaft-market every fortnight. The river here, which runs half through the town in a fteny chanucl, abounds with trout and falmon; and on the banks of it live the dyers and tamers.

KENNEL, a term ufed indifierently for a puddle, a water courfe in the ftreets, a houfe for a pack of 1:ounds, and the fack or cry of hounds themfelves.

Mir Beckford, in his Effay on Hunting, is tery particular in defcribing a kennel for hounds; and a kennel he thinks indifpenfably neceffary for keeping thofe animals in proper health and order. "It is true (fays he) hounds may be kept in barns and nables; but thofe who keep them in fuch places can bett inform you whether their hounds are capable of anfivering the purpofes for which they are defigned. The fenfe of fmelling is fo exquifite in a hound, that I camnot but fupfofe that every ftench is hurtul to it. Cleanlinefs is not only abfoiutely neceflary to the nofe of the hound, but alfo to the prefervation of his health. Dogs are naturally cleanly; and feldom, if they can help it, dung where they lie. Air and frefh fraw are neceflary to keep them healthy. 'They are fubject to the mange ; a diforder to which poverty and nalfinefs will very much contrioute. The kennel thould be fituated on an cminence; its front ought to be to the can, and the courts round it ought to be wide and airy to adm:t the funbeams at any time of the day. It is proper that it thould be neat without and clean within; and it is proper to be near the mafter's houfe, for obvious reafons. It ought to be made large enough at firf, as any addition to it afterwards may fooil it in appearance at leaft." 'Two kennels, however, in our author's opinion, are abfolutely necoffry to the wellbeing of hounds: "When there is but one (fays he), it is feldom fiveet ; and when cleaned out, the hounds, particularly in winter, fuffer both while it is cleaning and afterwards as long as it remains wet."

When the feeder firf comes to the kemel in a morning, he flou!d let out the hounds into the outer court; and in bad weather, fhould open the door of the hunting kennel (that in which the hounds defigned to tunt next day are kept), lef 'want of reft thould incline them to go into it. The lodging room thould thes be cleaned out, the doors and windows of it opened, the litter firken up, and the kennel made fweet and clean before the hounds return to it again.The floor of each lodging rocm frecuid be bricked, and floped on both fides to rus to the centre, with a gutter left to carry off the water, that when they are waflhed they may foon be dry. If water fhould remain through any fault in the floor, it mult be carefully mopped up; for damps arè always very prejucticia!.

The liennel ought to have three cioors; two in the front and one in the back ; the laft io have a lattice window in it with a wooden hutter, which is contantly to be kept clofed when the hounds ane in, eacept in fummer, when it fhould be le't open all the day.

At the back of Mr Beckford's kemreel is a hooufe thatched and furzed up on the lides, bigig pnousin to contain at leatt a load of naw: Here hiruld iee a pit ready to receive the dhag, and a callows for the flefa. The gallows fhouid liave a thate'led woo, and a -ircular board at the pofts to prevent vernine frm chanbing

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up. He advifes to cnclofe a piece of ground adjoining Kensslo to the kennel for fuch dog horfes as may be brought Kennet. alive ; it being fometimes dangerous to turn them out where other horfes go, on account of the diforders with which they may be infected. In fome kennels a fore is made ufe of; but where the feeder is a good one, Mr Beckford thinks that a mop properly ufed will render the fove unneceffary. "I have a little hay rick (fays he) in the grafs yard, which I think is of ufe to kcep the hounds clean and fine in their coats. You vill frequently find them rubbing themrelves againtt it. The flade of it is alfo ufeful to them : fummer. If ticks at any time be troublefome in your kennel, let the walls of it be well wahhed; if that fhould not deftroy them, the walls muft then be white wathed."

Befides the directions already given concerning the fituation of the kemel, our author recommends it to have aftream of water in its neighbourhood, or even rumning through it if poffible. There fhould alfo be moveable ftages on wheels for the hounds to lie on. 'The foil ought at all events to be dry.

To KenNeL, a term applied by fox-hunters to a fox when he lies in his hole.

KENNET, Dr White, a learned Englifh writer and bithop of Peterborough, in the reth century, bred at St Edmund hall, Oxford; where he foon diltinguifled himlelf by his vigorous application to his fludies, and by his tranflations of feveral books into Einglifh, and other pieces which he publifhed. In 1695 our author publithed his Parochial Antiquities. A fermon preached by him on the 30th of January 1703 at Aldgate expofed him to great clamour. It was printed under the title of $A$ compaffronate inquiry into the canfes of the civil war. In 1706 , he publithed his Cafe of Impropriations, and two other tracts on the fame fubject. In 1706 , he publified the third volume of The Complete Hiftory of England (the two former volunacs compiled by Mr Hughes). In 1709, he publithed A Vindication of the Church and Clergy of England from fome late reproaches rudely and unjutly caft upon them: and A true Aufwer to Dr Sacheve. rel's Sermon. When the great point in Dr Sacheverel's trial, the change of the minitiry, was gained, and very ftrange addrefies were made upon it, thore was to be an artful addrefs from the bilhop and clergy of Loadon, and they who would not fubicribe it were to be reprefented as enemies to the queen and the miniftry. Dr Kennet fell under this imputation. He was expofed to great odilim as a low church man, on acconat of his condeit and writings. When he was dean of Pe tesborough, a very uncowmon metiod was taken to expofe him by Dr Walton, rector of the church of Whitechapel: for in the altar piece of that church, whirh was intended for a reprefensition of Chrif and his 12 apofles eating the pallorer and laft fupper, Judas the traitor was drawn litting in an elbow-chair, dreffed in a black garment, with a great deal of the air of Dr Kemmet's face. It was generally fail! that the ori inal dictch was for a bilhop tuder Dr Wealton's dip:cafure; but the painter being aplrehenife of an action of Scanda ham Magra'um, leave was given to drop the bithop, and m:ke the dean. 'This giving german (fience, upon the compliant of others (for b) $K$ Kn rect never faw it, of feemed to regard it), the bihe

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Kennet, of London o:dered the picture to be taken down. In $\underbrace{\text { Kenticott. }} 1713$, he prefented the Socjety for Propagating the Gofpel whith a great number of books fuitable to their defign; publithed his Biblicthece Americance Primardia, and founded an antiquaris:3 and hiltorical zibrary at Pterborough. In 1715, he publifhed a fermon cntitled, The IVitchafraft of the prefont Revellion, and afterwards feveral other pieces. In $175 \boldsymbol{y}$ be was c:igaged in a difpute with Dr Wiilliam Nichalfon, bihop of Carlifle, relating to fonse alterctions it: the bifhop of Bangor"s famous fermon; and dilliked the proceedings of the convocation againtl that bithop. Upon the death of Dr Cumberland bifhop of Peterborough, he was pronoted to that fee, to which he was coneecrated in 1718. He fat in it more than ten years, and died in 1728 . He was an eacellent philologift, a good preacher, whether in Englifh or Latin, and well verfed in the liflories and antiquities of our nation.

Keniet, Bafil, a learned Englifh witer, and brother to the preceding, was educated in Corpus Chrifti college, in the univerfity of Onford, where he became fellow. In 1706, he went over chaplain to the Englifn factory at Leghorn; where he met with great oppofition from the Papifs, and was in danger frem the inquifition. He died in the year 1714. He publitised Lives of tie Greek poets; the Roman Antiquities; a volume of Sermons preached at Leghorn: A tranflation into Englifl of Puffendorf's Treatie of the Law of Natue and Nations. He was a man of moft excmplary integrity, generofity, piety, and modefty.

KENNICOI'I, Dr Br.xjaina, well known in the learned world for his elaborate edition of the Hebrew Bible and other raluable publications, was born at Totnefs in Devommire in the year ${ }^{1718}$. His tather was the parith clerk of Totnefs, and once mafter of a charity fohool in that town. At an early age young Kensicott fucceeded to the fame employ in the fchool, being recommended to it by his remarkable fobriety and premature krowledge. It was in that fituation he wrote the verfcs on the recovery of the honourable Mrs Courtney from a dangeraus illnefs, which recom mended him to her notice, and that of many neighbouring gentiemen. They, with laudable generofity, opened a lubfeription to fend him to Oxfotd. In judging of this performance, they may be fuppofed to have confidered not fo much is intrinfic merit, as the circumliances under which it was produced. For though it might claim juft praife as the fruit of youthful incuffry fruggling with obfcurity and indigence, as a poem it never rifes above mediocrity, and generally finks below it. But in whatever light thefe rerles were confidered, the publication of them was foon followed by fuch conitibutions as frocured for the autlor the advantages of an academical education. In the year 174.4 he entered at Wadham college ; and it was not long before he diftinguifhed himfelf in that paticular branch of fludy in which he afterwards became fo eminemt. His two difiertations on the Tree of Life, and The Oblations of Cain and Abel, came to a fecend edition fo early as the year 1747 , and procuted him the fingular honour of bachelor's degree conferred on him gratis by the univerfity a year before the flatutable time. The differtations were gratefully dedicated to thofe bencfactors whofe liberality had opened his way to the univerfity, or whofe kindnefs had madc it a
fcene not only oí manly labour, but of honcurable friendmip. With fuch mierit, and fuch fuppoit. We was a füceffful cundidate for a followilip of Licter college, and foon after his admiffon into that fociety, he dillinguifhed limfelf by the publication of teveral occafional fermons. In the ycar 37.33 he laid the foundation of that flupendous nonument of learned induftry, at which the wile and the good will gaze with admiration, when prejudice, and ensy, and ingratitude thall be dumb. This he did by publifhing his firl differtation, On the State of the printed llebrew text, in which he propofed to uverthrow the then prevailing notion of its abfolute integrity. The firt blow indeed, had been flruck lung before, by Capellus, in his Critica Sacra, publithed after his death by his fon, in 1650 -a blow which Buxtore, with all his abilities and dialectical flaill, was unable to ward off. But Capellus haring no opportunity of confulting MISS. though his arguments were fupported by the authority of the Samaritan Pentateuch, of parallel paftages, and of the ancient verions, cculd mever abfolutely prove his point. Indeed the gencral opinion was that the Hebrew MSS. contained none, or at leaft very few and tritling variations from the printed iext : and with refped to the Samaritan Pentatcuch very different opinions were enterained. Thole who held the Hebrew verity, of courfe condemned the Samaritan as corrupt in every place where it deviated from the Hebrew : and thofe who believed the Hebrew to be incorrest, did not think the Samaritan of fufficient authorisy to corred it. Befides the Samaritan itfelf appearcd to very great advantage; for no Samaritan MSS. were then known, and the Pentateuch itfelf was condomued for thofe errors which ought rather to have been afcribed to the incurrectnefs of the editions. In this differtation, therefore Dr Kemnicott, proved that there were many Hebrew MiSS. eatant, which, though they had hitherto been generally fuppofd to agree with each other, and with the Hebrew text, yet contained many and important rarious readings; and that from thofe various readings confiderable authority was derived in fupport of the ancient verfions. He announced the exiftence of fix Samaritan MSS. in Osford only, by whach many errors in the printed Samaritan might be removed; and be attempted to preve, that cven from the Samaritan, as it was already printed, many pallages in the Hebrew might undoubtedly be corrected. This work, as it was reafonable to expeed, was examined with great feverity both at home and abroad. In fome foreign univerfities the belief of we Hebrew verity, on its being attacked by Capellus, had been infifted on as on article of faitl.- ! Ma Capelli fententia adco non approbato fuit fidei focïs, ut potius He, Vetii thevlogi, el ipeciation Genurenfes, anno 1678 , peculiari canone caverint, ne guis in ditione fua minifter cociefice recipiatur, niff faseatur pulbiei, textumi Habraum, ut hotie eft in exemplaribus Maforeticis, quand confonames ct vocales. divinum et autherticum efe, (Wolfi Biblioth. Heb. tom. ii. p. 27.) And at tome this dectrine of the corrupt fate of the Hebrew text was oppofed by Comings and Bate, two Hutchinfonians, with as much violence as if the whole truth of revelation were it fakie.

The next three or four zears of Dr Fiennicots: life were principally fent in fearching out and examining

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ent. Hebrew manulcripts, though he found leifure not only to preach, but to publifh feveral occafional fermons. About this time Dr Kennicott became one of the king's preachers at Whitehall; and in the year 1759 we find him vicar of Culham in Oxfordihire. In Janmary 1760 he publithed his fecond differtation on the flate of the Hebrew Text: in which, after vindicating the authority and antiquity of the Samaritan Pentateuch, he difarmed the advocates for the Hebrew verity of one of their molt fpecious arguments. They had obferved that the Chaldee Paraphrafe having been made from Hebrew MSS. near the time of Chrift, its general coincidence with the prefent Hebrew Text muft evince the agreement of this laft with the MSS. from which the paraphrafe was taken. Dr Kennicott demonitrated the fallacy of this reafoting, by thowing that the Chaldee Paraphrafe had been frequently corrupted, in order to reconcile it with the printed test ; and thus the weapons of his antagonifts were fucceisfully turned upon themfelves. He appealed alfo to the writings of the Jews themfelves on the fubject of the Hebrew Text, and gave a compendious hiftory of it from the clofe of the Hebrew canon down to the invention of printing, together with a defcription of 103 Hebrew manufcripts which he had difcovered in England, and an account of many others preferved in various parts of Europe. A collation of the Hebrew manufcripts was now loudly called for by the mof learned and enlightened of the friends of biblical criticiifm; and in this fame year ( 1760 ) Dr Kennicott emitted his propofals for collating all the Hebrew manufcripts prior to the invention of priuting, that could be found in Great Britain and Ireland, and for procuring at the fame time as many collations of foreign manufcripts of note, as the time and money he fhould receive would permit. His firlt fublcribers were the learned and pious Archbifhop Secker, and the delegates of the Oxford prefs, who, with that liberality which has generally marked their character, gave him an annual fubfcription of 40l. In the frit year the money received was about 500 guineas, in the next it arofe to 900 , at which fum it continued flationary till the tenth year, when it amounted to 1000 . During the progrefs of the work, the induftry of our author was rewarded by a canonry of Chrift Church. He was alfo prefented, though we know not exactly when, to the valuable living of Mynhenyote, in Cornwall, on the nomination of the chapter of Exeter. In $177^{6}$ the firft volume was publifhed, and in 3780 the whole was completed. If now we confider that above 600 MSS. were collated, and that the whole work occupied 20 years of Dr Kennicott's life, it muft be owned that facred criticifm is more indebted to him than to any fcholar of any age. Within two years of bis death, he refigned his living in Comwall, from confcientious motives, on account of his not having a profpect of ever again being able to vifit his parifh. Although many good and confcientious men may jufly think, in this cafe, that his profeffional labours carried on elfewhere might pronerly have entitled him to retain this preferment, and may apply this reafoning in other cafes; yet a conduct fo fignally difinterefted deferves certainly to be admired and celebrated. Dr Kenuicott died at Oxford, after a lingering illnefs, September 18. ${ }^{17} 83$; and left a widow, who was filter to the late Edward Chamberlayne, Efq. of the treafury. At the Vol. XI. Part II.
time of his death he was employed in printing Remarks on Select Paffages in the Old leftament ; which were afterwards publifhed, the volume having been completed from his papers.

KENO. See Kino.
KENRICK, WulLIAM, an author of confiderable abilities, was the fon of a citizen of London, and brought up, it is faid, to a mechanical employment. This, however, he fecms early to have abandoned; and to have devoted his talents to the cultivation of letters, to have devoted his talents to the cultivation of letters,
by which he fupported himfelf during the reft of a life, which might be faid to have paffed in a flate of warfare, as he was feldom without an enemy to attack or to de-
fend himfelf from. He was for fome time ftudent at as he was feldom without an enemy to attack or to de-
fend himfelf from. He was for fome time ftudent at Leyden, where he acquired the title of J. U. D. Not long after his return to England, he figured away as a
poet in Epifles Philofophical and Moral, 1750, ad. long after his return to England, he figured away as a
poet in Epittles Philofophical and Moral, 1759 , ad. dreffed to Lorenzo ; an avowed defence of infidelity, written whillt under confinement for debt, and with a declaration that he was " much lefs ambitious of the declaration that he was " much lefs ambitious of the
character of a poet than of a philofopher." From this period he became a writer by profeffion; and the Proteus thapes under which he appeared, it would be a
fruitlefs attempt to trace. He was for a confiderable teus thapes under which he appeared, it would be a
fruitlefs attempt to trace. He was for a confiderable time a writer in the Monthly Review; but quarrelling with his principal, began a new review of his own.
When our great lexicographer's edition of Shakefpeare with his principal, began a new review of his own. firlt appeared in 1765 , it was followed in a fortnight by a pamphlet, entitled, "A Review of Dr Johnfon's new
Edition of Shakefpeare, in which the ignorance or ina pamphlet, entitled, "A Review of Dr Johnfon's new
Edition of Shakefpeare, in which the ignorance or inattention of that editor is expofed, and the poet defended from the perfecution of lis commentators, 1765 ." This parmphlet was followed by an Examination of it, This parphlet was followed by an Examination of it,
and that by a Defence in 1766 ; in which year he produced his pleafant comedy of Falfaif's Wedding, at firt intended to have been given to the public as an
original play of Shakefpeare retrieved from obfcurity firft intended to have been given to the public as an
original play of Shakefpeare retrieved from obfcurity, and is, it mult be acknowledged, a happy imitation of our great dramatic bard. With the celebrated Englith Rofcius Dr Kenrick was at one time on terms of the Rocius Dr Kenrick was at one time on terms of the
fricteft intimacy : but took occafion to quarrel with him in print, in a mode too unmanly to be mentioned. In politics alfo he made himfelf not a little confpicuous; particularly in the difpute between his friends ous; particularly in the difpute between his friends
Wilkes and Horne. He was the original editor of The Morning Chronicle; whence being oufted for neglect, he fet up a new one in oppotition. He tranilated in a very able manner the Emilius and the Eloifa of Kouffeau; the Elements of the Hiftory of England, by Milot (to injure, if pollible, a tranllation of the fame work by Mrs Brooke); and produced feveral dramatic performances, together with an infinite variety of publications both original and tranflated. To him
alfo the public are indebted for the collection (imperof publications both original and tranflated. To him
alfo the public are indebted for the collection (imperfeet as it is) of The Poetical Works of Robert Lloyd, M. A. 1774,2 vols 8 vo. Dr Kenrick, died June 9. 1777. KENSINGTON, a village of Middlefex, on the weitern road from London, near two miles from Hyde-
Park Corner. It is extremely populous; and befides weltern road from London, near two miles from Hyde-
Park Corner. it is extremely populous; and befides the palace, now noglected, contains many genteel houfes, and feveral boarding fchools. The palace, which was the feat of the lord chancellor Finch, after $\cdots$ ards earl of Nottingham, was purchafed by King Willian ; who greatly improved it, and caufed a royal

Ker:. road to be made to it, through St James's and Hyde Parks, with lamp pofts erectud at equal diltances on each lide. Queen Mary enlarged the gardens. Her fifter Queen Anne improved what Mary had begun; and was fo pleafed with the place, that the frequently fupped during the fummer in the greenhoufe, which is a very beautiful one: but Quecn Caroline completed the delign by extending the gardens from the great road in Kenfington to Actun; by bringing what is cailed the Serpentine River into them; and by taking in fome acres out of Hyde Park, on which the cauled a mount to be erected, with a chair on it that could be ealily turned round for thelter from the wind, fince decayed. This mount is planted about with evergreens, and commands a fine view over the noble gardens, and the country fouth and welt. They were originally defigned by Kent, and wcre afterwards much improved by Brown; and though they contain no flriking beauties, which their flat fituation will not admit, yit they have many pleafing parts, and afford much delight to the inhabitants of London, particularly to thofe whofe profeffions will not allow of frequent excurfions to more dittant places. Thefe gardens, which are three miles and a half in compafs, are kept in great order. The palace indeed has none of that grandeur which ought to appear in the relidence of a Britith monarch; but the royal apartments are noble, and lome of the pictures good. It was at this place King William, Prince George of Denmark, Queen Anne, and King George 11. died. The old culurch was pulled down in 1696, and a much better one built in its room. Part of this village, from the palace gate to the Bell, is in the parilh of St Margaret's, Weflminfter.

KENT, one of the counties of England, fituated at the fouth-eaft corner of the illand, and from thence enjoying many advantages. The capacious xetuary of the Thames wathes its northern parts, as the fea does the fouth eaft ; whence fome with no great impropriety have ftyled it a peninfula. In point of extent, this is the fifth thire in South Britain, little lefs in its dimerifons than the province of Holland; larger in fize than the duchy of Juliers in Germany ; and almont exachly equal to that of Modena in Italy. Kent is, with great appearance of truth, fuppoled to be fo Atyed from the ancient Britih word kant, fignifying a cornic, or, when applied to a country, a head-land. It is certain, that the Romans beltowed the name of Cantium on the province, and on its mont confinicuous promontory the North Foreland; and from the difrict they inhabited, the people were called Cantii; which has prevailed even to our timeś, when Kent, and the the men of Kent, are the common appellatives. It is however probable, that thefe Cantii were not the original inhabitants, but a later colony from the oppolite continent, eflablithed here, like the Belg:e, not long before the Roman invation. At the time of Cxfar's coming, this fpacious and fertile region was divided into four principalities, or, as they are, accord-

Camptells,
Piliticat in to the manners of thofe days, commonly called, kingloms. It was his obfervation of thefe people, that they were narticularly diftinguillied by their civility and politenefs; a character which their defcendants have preferved. When that wife people became mafers of the fouthern parts of the illand, this province
received the moll confpicuous marks of their attention, as appears from the ftations which they fo prudently eflablified, while their government flourifued in its full viguur. The care they touk of the ports on the fea coalt as foon as it came to be in danger, and the leveral fortrefles which they erecied for the defence of their fubjects againf the ludden attempts of barbarous invaders, are evidences of the fame kind. Thefe forts, io prudently difpuled, and fo well fecured, were under the direction of a particular great officer, called Litloris Saxonici Comes, i. e. the count of the Saxon flore; which olfice feems to have been preferved by the Britill monarchs who governed here, after the Romans quited the inf. The Saxon kings of Kent difcharged this trult in their legal capacity, from the middle of the fifth to the begimning of the ninth century. Under the morthern princes, this poft was again revived, though with a change of title, in the Lord ITarden of the Cingue Ports. Indeed, under all governments, the people of Kent have been efpecially confidered; as appears from their claim to the polt of honour in our land armies, and the privileges granted to their havens, in confideration of their undertaking the defence of our channel.

As to the climate of this countr, it varies according to the lituation of places. In the low flat lande, 'and elpecially in the marfies, the air is heavy, moin, and unlealthy; and yet not to fuch a degree as it has been Cometimes reprefented; for, with a little care and caution, ftrangers, as well as natives, quickly reconcilc their conflitutions to the temperature even of thefe parts, and live in them without much inconveniency. or apparent danger. But, in reference to the reft of the county, the air is as thin, fure, and wholefome, as in any part of Britain. There is no region more happily or more beautifully diverfified in regard to foil, lo that every kind thereof is, fomewhere or other, to be met within its bounds; and in no fhire are any of thefe foils more fertile than they are in this. The Weald yields variety of fine timber, particularly of chefinut; the middle part has very rich arable land, annually bearing every fpecies of grain in immenfe plenty, and thefe excellent in their feveral forts. There are alfo many beautilul orehards, which produce a variety of fine Fruits, and mure efpecially apples and cherries, which were introduced here from Flanders by one Richard Harris, who was the king's fruiterer, in the reign of Henry VIll. The flat country is renowned for its meadows; and Rumney marft has hardly its equal. We may from this concule defoription very eatily collect, that the natural products of Kent are numerous, and of great value. In the bowels of the earth they find, in feveral places, a rough hard ferviceable fone for paving, with turns to lome advantage; but not fo mucls as their exquifite fullers enrth, rich marl, and fine chalk, which are there in abundance. If we except iron ore, indeed they have no mines; but there are prodigious heaps of copperas funes thrown on the coaf. The inle of Sheppey, and all the adjacent floore as far as Reculver, is jutlly famous for its wheat. Thanet is in no lefs credit for its barley, or rather was fo; for now it produces, through the painful induftry and fkilful hulbandry of its inhabitants, copious crops of good wheat as well as barley. Horfé, black cattle, and flicep, they have in great numbers,

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numbers, and remarkable in point of fize; and hop grounds in all parts of the county, which turn to very confiderable account. To which we may add weld, or as fome call it dyers weed, which is a very profitable commodity, and of which thace grows much in the neighbourhood of Canterbury; alfo madder, which is, or has been, occafiomally cultivated. The rivers and fea confts abound with fith of different kinds. The excellency of its oyfters on the eaftern thores is celebrated by the Roman poets. Thofe of Feverthan and Nilton are not only in great elleem at the London market, but are likiewife fent in great quantities to Holland.
The many rich commodities produced in this county, is the reafon why moft of our writers have reprefented it as in a manner void of manufactures; which, however, as appears upon a ilrict and impartial examination, is very far from being the cafe. Of iron works there were anciently many; and these are fill fome, where kettles, bombs, bullets, cannon, and fuch like, are made. At Deptford Sir Nicholas Crifpe had in his lifetine a very famous copperas work; as, indeed, there that ingenious gentleman, one of the greateft improvers and one of the moft public fpirited perfons this nation ever bred, introduced feveral other inventions. Copperas was alfo formerly made, toge. ther with brimftone, in the ille of Sheppey $\dagger$. But the original and for many ages trie principal manufacture of this county was broad cloth of different colours, eftablinhed chiefly at Cranbrook by King Edward III. who brought over Flemings to improve and perfect (the trade being introduced long before) his fubject in that important art. At this and other places it flourifhed fo much, that even at the clofe of Queen Elizabeth's reign, and according to fome accnunts much later, the beft for home confumption, and the largelt quantities for exportation, were wrought here; many fulling mills being erected upon almof every river, and the greatef plenty of excellent fullers earth afford. ing them fingular aflitance; informuch that it is ftill a tradition, that the yeomanry of this county, for which it has been ever famous, were moflly the defcendants of rich clothiers, who laid out the money acquired by their induftry in the purchafe of lands, which they tranfnitted, with their free and independent fpirit, to their pofterity. The duke of Alva's perfecution of the Proteftants in the Low Countries drove a multitude of Walloons over hither, who brought with them that ingenuity and application for which they had been always diftinguifhed. Thefe diligent and active penple fettled a manufactory of flannel or baize at Sandwich. By them the filk looms were fet up at Canterbury, where they fill fubfift; and they alfo introduced the making of thread at Maidftone, where it yet remains, and merits more notice and encouragement than hitherto it has met with.

Upon the river Dart, at the confluence of which with the Thames flands the town of Dartford, was fet up, in the reign of Queen Elizabeth, the firf mill for maki g white paper by Mr John Spilman, a German, upon whom, long after, King James conferred the honcur of knighthood; hut King Charles more Senlibly befowed upon this Sir John Spilman a patent and a penfion of 203'. a-year, as a reward of his invention, and for the fupport of the manufacture. A.
bout the year ${ }^{3} 590$, Godfrey Box, a German, erefl-Kimigera ed upon the fame river the firt ditting mill which was ever ufed for making iron wire ; and alfo the firt bat- Kentucky tery mill for making copper plates. Other new inventions, requiring the alfititnce of water, have been fet up on other ifreams; and a great variciy of machines of this fort Alill fubfilt in dillerent parts of this county. But thefe things are now fo common, that it would be both tedious and ufelefs to infilit upon them. Amongft thefe, we may reckon the making gunpowder in ifveral places. That manufacture, however, which is now the glory of this county, a windeed of Britain, is fhip-building; more elpeciail at the royal yards; as at Woolwich, which was feited by Henry VIII. and fome confiderable thips built there. At prefent, there is not only a mott complete ettablihment for the building and equiping men of war, a rope walk, foundery, and magazines; but alfo many private docks, in which prodigious bufinels is carried on, and mulutudes of people are employed. The population of this county in 1801 was more than 307,000.

The Goodwin or Godwin Sands, of which the account and the reference were omitted under the word, are remarkable fa d banks off the coaft of Kent, fituated between the North and South Foreland. As they run parallel with the coalt for mine miles together, about feven miles and a half from it, they give fecurity to that extenfive coaft, the Downs; for while the land fhelters lhips with the wind from fouth-weft to northweft only, the force of the fea is broken by thefe fands when the wind is at eaft-fouth-eaft. The moft dangerous wind when blowing hard in the Downs, is the fouth-fouth-wef. The fpace they occupy was formerly a large tract of low ground, belonging to Godwyn earl of Kent, father of Harold II.; and being afterwards enjoyed by the monaftery of St Augunine at Canterbury, the whole tract was drowned by the abbot's neglect to repair the wall which defended it from the fea. This happened in the year 1800 . Many veffels have been wrecked upon them. They lie eaft from the Downs, four miles and a half from South Foreland.

KENTIGERN, St, or St Mfungo, a famous faint of the Popilh church, who flourifhed in Scotland in the fixth century, faid to bave been of the royal blood of both Scots and Picts, being ${ }^{\circ}$ the fon of Thametis, the daughter of Loth king of the Picts, by Eugene III. king of Scotland. The bihoprics of Glafgow and St Afaph were foundied by him in 560 . He obtained the appellation of Mungo from the affection of his tutor St Serf or Servanus, bilhop of Orkney, who callcd him Mongah, which in the Norwegian language, fignifies dear friend.

KENTISH тоws, a village of Middlefex, three miles north of London, near Hampfead, much immoved of late by feveral handfome houfes belonging to the citizens of London, \&c. A new chapel has lately beeri ercted here.

KENTUCKY, a province of North $\Lambda$ merica, belonging at prefent to the fate of Virginia, but propured foon to be admitted into the union as an independent ftate. It is fituated between $366^{\circ} 30^{\prime}$ and $=9^{\circ} 3 ว^{\prime}$ north latitude, and $8^{\circ}$ and $15^{\circ}$ wef longitude; bciag 250 miles in length, and 200 in hreadt'. It is hounded north-weft by the river Ohio; wen, by Cumberland

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$\underbrace{\text { Kentucky }}$ river; fouth, by North Carolina; eall, by Sandy river, and a live drawn due fouth from its fource till it ftrikes the northern boundary of North Carolma. Kentucky was originally divided into two ccunties, Lincoln and Jefierfon. It has fince beenfubdivided into feven, viz. Jefferfon, Favette, Bourbon, Mercer, Nelfon, Maddifon, and Lincoin. Lexington is the chief town.

The river Oinio wafnes the north-weftern fide of Kentucky, in its whole extent. Its principal branches which water this fertile tract of country, are Sandy, Licking, Kentucky, Salt, Green, and Cumberland rivers. Thefe again branch, in various directions, into rivulets of different magnitudes, fertilizing the country in all its parts.-There are five noted falt fprings or licks in this country, viz. the higher and lower Blue Springs on Licking river, from lome of which, it is faid, iffue flreams of brinilh water; the Big Bone lick, Drenvon's licks, and Bullet's lick at Saluburg. The laft of thefe licks, though in low order, has fupplied this county and Cumberland with falt at twenty frillings the buthel, Virginia currency; and fome is exported to the Illinois country. The method of procuring water from thefe licks is by finking wells from 30 to 40 feet deep. The water drawn from thefe wells is more ftrongly impregnated with falt than the water from the fea.

This whole country, as far as has yet been difcovered, lies upon a bed of limeftone, which in general is about fix feet below the furface, except in the valleys, where the foil is much thinner. A tract of about 20 miles wide along the banks of the Ohio is hilly broken land, interfperfed with many fertile fpots. The refl of the country is agreeably uneven, gently afcending and defcending at no great diftances. This country in general is well timbered; and fuch is the variety and beauty of the flowering thrubs and plants which grow fontancoully in it, that in the proper feafon the wildernefs appears in bloffom. The accounts of the fertility of the foil in this country have in fome inftances exceeded belief, and probably have been exaggerated. That fome parts of Kentucky, particularly the high grounds, are remarkably good, all accounts agree. The lands of the firf rate are too rich for wheat, and will produce 50 and 60 , and in fome inflances it is affirmed 100 buthels of good corn an acre. In common the land will produce 30 bufhels of wheat or rye an acre. Barley, oats, cotton, flax, hemp, and vegetables of all kinds common in this climate, yield abundantly. The old Virginia planters fay, that if the climate does not prove too moif, ferw foils known will yield more and better tobacco. The climate is lealthy and delightful, fome few places in the neighbourhood of ponds and low grounds excepted. The inhabitants do not experience the extremes of heat and cold. Snow feldom falls deep or lies long. The winter, which begins about Chriftmas, is never longer than three months, and is commonly but two, and is fo mild as that cattle can fubfift without fodder.

It is impoffible to afcertain with any degree of accuracy the prefent number of inhabitants, owing to the numerous acceffions which are made almoft every month. In 1783 , in the county of Lincoln only, there were on the militia rolls 3570 men, chiefly emigrants from the lower parts of Virginia. In 1784 the num-
ber of inhabitants was reckoned at upwards of 30,000 . Kentuct From the accounts of their aftonifing increafe fince, we may now fafely eftimate them at 100,000 . It is aflerted that at leaft 20,000 misrated here in the year 1787. Thefe people, collected from different flates, of different mamers, cultoms, religions, and political fentiments, have not been long enough together to form a uniform and diftinguilhing characer. Among the fettlers there are many gentlemen of abilities, and many genteel families froin feveral of the flates, who give dignity and refpectability to the fettlement. They are in general more orderly perhaps than any people who have fettled a new country.

As to religion, the Baptifts are the molt numerous fect in Kentucky. In 1789 they had 16 churches eftablifhed, befides feveral congregations where churches were not conflituted. Thefe were fupplied with upwards of 30 minifters or teachers. There are feveral large congregations of Prelbyterians, and fome few of other denominations.

The legillature of Virginia lave made provifion for a college in Kentucky, and have endowed it with very confiderable landed funds. Schools are eftablifhed in the feveral towns, and in general regularly and lands. lomely fupported. They have a printing office, and publifh a weekly gazette. They have erected a papermill, an oil-mill, fulling-mills, faw-mills, and a great number of valuable grift-mills. Their falt works are more than fufficient to fupply all the inhabitants at a low price. They make confiderable quantities of fugar from the fugar trees. Labourers, particularly tradelmen, are exceedingly wanted here.

The firlt white man who difcovered this province was one James Macbride, in the year 1754. From this period it remained unexplored till about the year 1767, when one John Finley and fome others, trading with the Indians, fortunately travelled over the fertile region now called Kentucky, then but known to the Indians by the name of the Dark and Bloody Grounds, and fometimes the Middle Ground. This country greatly engaged Mr Finley's attention, and he communicated his difcovery to Colonel Daniel Boon, and a few more, who conceiving it to be an interefting objest, agreed in the year 1769 to undertake a journey in order to explore it. After a long fatiguing march over a mountainous wildernefs, in a weftward direction, they as length arrived upon its borders; and from the top of an eminence, with joy and wonder defcried the beautiful landfcape of Kentucky. Here they encamped, and fome went to hunt provifions, which were readily procured, there being plenty of game, while Colonel Boon and Joln Finley made a tour through the country, which they found far exceeding their expectations; and returning to camp, informed their companions of their difcoveries. But in fpite of this promifing beginning, this company meeting with nothing but hardhips and adverfity, grew exceedingly diheartened, and was plundered, difperfed, and killed by the Indians, except Colonel Boon, who continued an inhabitant of the wildernefs until the year 1771, when he returned home.

Colonel Henderfon of North Carolina being informed of this country by Colonel Boon, he and fome other gentleman held a treaty with the Cherokee Indians at Wataga in March 1775, and then purchafed.

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Fepler. from then the lands lying on the fouth frde of Kentuck y river for goods at raluable rates, to the amount of $60 c o l$. Specie.

Soon after this purchafe, the fate of Virginia took the alarm, agreed to pay the money Colonel Donaldfon had contracted for, and then difputed Colonel Henderfon's right of purchafe, as a private gentleman of another ftate in behall of himfelf. However, for his eminent fervices to the country, and for having been inftrumental in making fo valuable an acquifition to Virginia, that flate was pleafed to reward him with a tract of land at the mouth of Green river, to the amount of 200,000 acres; and the fate of North Ca rolina gave him the like quantity in Powel's Valley. This region was formerly claimed by various tribes of Indians; whole title, if they had any, originated in fuch a manner as to render it doubtful which ought to poffefs it. Hence this fertile Spot became an object of contention, a theatre of war, from which it was properly denominated the Bloody Grounds. Their contentions not being likely to decide the right to any particular tribe, as foon as Mr Henderfon and his friends propoled to purchafe, the Indians agreed to fell; and notwithftanding the valuable confideration they received, have continued ever fince troublefome neighbours to the new fettlers.

The progrefs in improvements and cultivation which has been made in this country, almoft exceeds belief. Eleven years ago Kentucky lay in foreft, almof uninhabited but by wild beafts. Now, notwithftanding the united oppofition of all the weftern Indians, the exhibits an extenfive lettlement, divided into leven large and populous counties, in which are a number of flourifhing little towns, containing more inlabitants than are in Georgia, Delaware, or Rhode Illand ftates ; and nearly or quite as many as in New HampMire.

KEPLER, John, onc of the moft eminent aftronomers who have appeared in any age, was born at Wiel on the 27 th of December 157 I . His father's name was Henry Kepler, an officer of diftinction among the troops of Wirtemberg, but reduced to poverty by numerous misfortunes. This expofed young Kepler to many difficulties and interruptions while acquiring the rudiments of his education; but fuch was his genius, and fuch his avidity for knowledge, that he furmounted every difficulty, and his proficiency was aftonilhing. He fludied at the univerfity of 'Tubingen, where he obtained the degree of bachelor in the year 1588 , and that of matter of philofoply in 1591. In the year 1592 he applied himfelf to the ftudy of divinity; and the fermons he produced were fufficient indications that be would have excelled as a preacher, had he contirued in the clerical profeffion. 'I'he mathematics, however, became his favourite ftudy, for his knowledge of which he acquired fuch diftinguifhed reputation, that he was invited to Gratz in Styria in the year 1594, to fill the mathematical chair in the universty of that city. After this period his chief attention was directed to the fludy of aftronomy, and he made many interefting difooveries refpecting the laws of planetary motions.
'Two years after his marriage with a lady defcended from a noble family, perfecution on account of his religion compelled him to quit Gratz, to which he was atterwards recalled by the liates of Styria. The calami-
ties of war, however, induced him to look for a refidence where he might enjoy greater fafety and tranguillity. During this uncomfortable fituation of afiairs, the celebrated 'Tycho Brahé Atrongly urged him to fettle in Bahemia as his affiftant, where he himfelf had every neceflary requifite furnifhed to him by the emperor Rodolph, for the profecution of his aftronomical ftudies. The numerous and urgent letters which Kepler received upon this fubject, and folemn affurances that he chould be introduced to the emperor, at length prevailed with him to leave the univerfity, and fettle in Bohemia with his family in the year 1600 . On his way to that country he was feized with a quartan ague, which afflicted him for feven or eight months, and rendered lim incapable of contributing that aid to Tycho which he would otherwife have done. He was likewife difplealed with the conduet of this aftronomer towards him, and thought that he behaved in an unfriendly manner, by neglecting to do a material fervice to his family when he had it in hispower. Kepler allo confidered him as by far too referved, in not coomunicating to him the whole of his difcoveries and improvements. The death of Tycho happened in 1601 ; and thus the intercourfe between thefe two eminent men being of fucl thort duration, precluded Kepler either from being very ferviceable to, or deriving much advantage from, the inveftigations and refearches of the Danilh aftronomer. Kepler, however, was introduced to the emperor by Tycho, in conformity to his promife, and appointed. mathematician to his imperial majefly, with inftructions to complete the Rodolphine Tables which that great man had begun. Thele were not publikhed till the ycar 1627 , owing to a variety of obftructions and difticulties which were thrown in his way. Two years af. ter the publication of this work, he went to Ratibbon, by permiffion of the emperor, to claim payment of the arrears of his penfion, where he was leized with a violent fever, fuppofed to have been brought upon him by too hard riding; and to this he fell a victim in the month of November 1630 , in the 59 th year of his age.

The learned world is indebted to this fagacious and able aftronomer and mathematician for the difcovery of the true figure of the planetary orbits, and the proportions of the motions of the folar fyltem. Like the difciples of Pythagoras and Plato, Kepler was feized with a peculiar paffion for finding analogies and harmonies in nature ; and although this led him to the adoption of. very 11 range and ridiculous conceits, we thall readily be difpofed to overlook thefe, when we refiect that they were the means of leading him to the molt interefting difcoveries. He was for fome time fo charmed with the whimfical notions contained in his Mysterium Cofinographicum, publiihed in 1596, that he declared he would not give up the honour of having invented what. was contained in that book for the electorate of Saxony ;-fo eafy is it for the greateit of men to be deceived by a darling hypothefis.

He was the firlt who difcovered that aftronomers had been invariahly miltaken in always afcribing circular orbits and uniform motions to the planets, fince each of them nowes in an ellipfis, having one of its foci is the fun; and, after a varicty of fruitlefe efforts, he, on the 15 th of May 1618 , made his fplendid difiovery "that the fquares of the periodic times of the planets were al-

15ctatophy firays in the fame proportion as the cubes of their mean tum, diliances from the fun." As it was long a favourite $\underbrace{\text { Kerckri - cpinion of Kepler's, that there are only fix primary pla- }}$ nets, he feems to have been alarmed at the difcovery madc by Galileo, of four new planets, or fatellites of Jupitcr, which yave a deathblow to the dectrines contained in his Siysterium Cofmographicumn. The fagacity of this wonderful man, and bis inceffant application to the fludy of the planetary motions, pointed out to him fome of the genuine primciples from which thefe motions originate. He confidered gravity as a power that is mutual between bodies; that the earth and moon tend towards each other, and would meet in a point, fo many times nearer to the earth than to the moon, as the earth is greater than the moon, if their motions did not prevent it. His opinion of the tides was, that they arife from the gravitation of the waters towards the moon; but his notions of the laws of motion not being accuzate, he could not turn his thoughts to the bef advantage. The prediction he uitered at the end of his epitome of aftronomy, has been long fince verified by the difcoveries of Sir Ifaac Newton, that the difcovery of fuch things (the true laws of gravity) was referved for the fuccceding age, when the Author of nature would be pleafed to reveal thofe myfteries.

To this concife account of the celebrated Kepler, we fhall now add a lift of his principal publications. MyRerium Cofnographicuna, already mentioned, 4to ; Paralipomena ad Vitellionen, quibus Afronomice Pars Optica traditur, 1604, 4to; De Stella Nosa in Pede Serpentarii, 16c6, 4 to; Afronomia Nova, feu Physica Crelefis, tradita Commentariis de Motibus Stellae Martis, ex Obfervationibus Tyconis Brahei, 1609, folio; Differtafiones cum Nuncio Sidereo Galilei, 1G10; De Cometis, Libri tres, 1611, 4to; Ephemerides Novue, from 1617 to 1620 ; Epilome Affronomice Copernicanae, in two volumes 8 vo , the firf publifhed in 1618 , and the fecond in 1622; Harmonices Mundi, lib. v. 1619, 4 to; Chilias Logarithmorum in totidem numeros rotundos, 1624, 4to: Supplementum Chuliadis, \&c. 1625, 4to; Tabula Rodolphinue, 1627, folio; De fefu Chrifti Sersatoris anko natalitio, \& cc. He was alfo the author of feveral other pieces connected with chronology, the menfuration of folids, and trigonometry, with a treatife on dioptrics, an excellent performance for the period in which he flourifhed.

KERATOPHYTUM, in Natural Hifory, a fpecies of Gorgoria. - The keratophyta have been called the frutices corallo:des, or fea thrubs; and are generally known among naturalifts by the different appellations of lithophyta, lithoxyla, and keratopkyta.-See Gorgonia, Helmisthology Index.

KERCKRING, Theodore, a famous phyfician of the 17 th century, was born at Amferdam, and acquired a great refutation by his difcoveries and his works. He found out the fecret of foftening amber without depriving it of its tran'parency; and made ufe of it in coverins the bodies of curious infects in order to preferve therr. He was a memlier of the Royal Society of London, and died in 1693 at Hamburgh, where he bad fpent the greatel mart of his life, with the title of $r_{\ell} / \mathrm{I}_{-}$ dent of the grand duke of Tuicany. His principal works are, 1. Spicilegium anatomiciun. 2. Anlliropogenio ichnograplia. Tlere in alio att.ibuted to him an anatomical work, printed in 16,1 in folio.
$K E R I$ CETIR, arc various readings in the Hebrew Bible: keri fignifies that which is read; and cetib that which is writtes. For where any fuch various readings occur, the wrong reading is written in the text, and that is called the cetib; and the true reading is written in the margin, with $p$ under it, and called the keri. It is generally faid by the Jewih writers, that thefe correciions were introduced by Ezra; but it is moft probable, that they had their original from the miftakes of the tranfcribers after the time of Ezra, and the obfervations and corrections of the Maforites. 'Ihofe Keri cetibs, which are in the facred books written by Ezra himfelf, or which were taken into the canon after his time, could not have been noticed by Ezra himfelf; and this affords a prefumption, that the others are of late date. Thofe words amount 10 about 1000 ; ard Dr Kennicott, in his Differtatio Generalis, remarks, that all of them, excepting If, have been found in the text of manufcripts.

KトRMAN, the capital city of a Lrovince of that name in Perlia, feated ia E. Long. , 6. 30 N. Lat. 30.0. The province lies in the fouth part of Peria, on the Perfian gulf. The fheep of this country, toward, the latter end of the fpring, fhed their wool, and become as naked as fucking pigs. The principal revenue of the province confifts in thefe feeces.

KERMES, in Zoology, the name of an infect produced in the excrefcences of a fpecies of the oak. See Coccus.

Kermes Mineral, fo called frem its colour, which refembles that of vegetable kermes, is one of the antimonial preparations. See Chemistry and Materia Medica Index.
KERN, or Kerne, a term in the ancient Irifh militia, fignifying a foor foldier. Camden tells us, the armies of Ireland confifted of cavalry, called gallogla/fes; and infantry, lightly armed, called kernes.-The kernes bore fwords and darts; to the laft were fitted cords, by which they could recover them after they had been launched out.
Kernes, in our laws, fignify idle perfons or vagabonds.

KERRY, a county of Ireland, in the province of Munfter, anciently called Corrigia, or "the rocky country," from Cerrig or Carric, " a rock." It is bounded by the Shannon which divides it from Clare on the north, by Limerick and Cork on the eaft, by another part of Cork on the fouth, and by the Atlantic ocean on the weft. Thic beft town in it is Dingle, fituated in a bay of the fame name. It compreliends a great part of the territory formerly called Defmond, and confifts of very different kinds of fuil. The fouth paris are plain and fertile, but the north full of high mountains, which though remarkably wild, produce a great number of natural curiolities. It contains 636,905 Irih plantation acres, 84 parihes, 8 baronies, 3 boroughs; returns 8 members to parliament, and gives title of earl to the family of Fitzmaurice. It is about 57 miles long, 45 broad, and lies within N. Lat. 51.30 . and 52.2.2.; the longitude at the mouth of Kenmare river being $10^{\circ} 35^{\prime}$ welt, or $42^{\prime} 20^{\prime \prime}$ difference of time with London. It is the fourth county as to extent in Jreland, and the fecond in this province; but in refpect to inhabitants and culture doth not equal n:any fraller counties. In it there are two epificopal fees, which

## K E S

Kerfey have been annexed to the bihofric of Limacrick fincs the year 1662 , viz. Ardfert and $A g$ hadoe. The lee of Irdfert was anciently called the diocefe of Kerry, and its bilhops were named bilhops of Ferry. Few mountains in Ireland can vie with tho?e in this county for height ; duing the greater part of the year their fides are obfcured by fogs, and it mult be a very ferene day when their tops appear. Iron ore is to be had in great plenty in moil of the fouthern baronies. The principal rivers are the Blackwaier, Feal, Gale, and Brick, Calhin, Mang, Lea, Fleßk, Laun, Carrin, Fartin, Inry, and Roughty ; and the principal lake is Killarrey. There are fome good medicinal waters difcovered in this county; particularly Killarney water, lveragh Spa, Fellofwell, Dingle, Calflemain, and Trallee Spas, as alfo a faline fpring at Maherybeg. Some rare and ufeful plants grown in Kerry, of which Dr Smith gives a particular account in his hitory of that county.

KERSEY, a kind of coarie woollen cloth, made chicily in Kent and Devonhire.

KESITAH. This word is to be met with in Genefis and in lob, and is tranllated in the Septuagint and Vulgate "theep or lambs:" But the Rabuins and modern interpreters are generally of opinion, that keftah fignifies rather a piece of money. Bo:hart and Euqubinus are of opinion the Septuagint meant mince, and nor lambs; in Gieck kecatommo:n, exx:rourav, infead of ivenor xurvy. Now a mina was worth 60 Hebrew thekels, and conlequently 61. $16 \mathrm{~s} .10 \frac{1}{2} \mathrm{~d}$. fterling. M. de Pelietier of Roaen is of opinion, that kefitah was a Perfian coin, flamped on one fide with an archer ( $K e / i-$ tah, or Kefer/, in Hebrew fignifying " a bow"), and on the other with a lamb; that this was a gold coin known in the eat by the name of a daric. Several learned men, without mentioning the value of the kefitah, fay it was a filver coin, the imprellion whereof was a theep, for which reafon the Septuagint and Vulgate tranllate it by this name. Calmet is of opinion, that kelitah was a purfe of gold or filver. In the eatt they reckon at prelent by purfes. The word kifa in Chaldee fignifies "年 meafurc, a vefiel." And Eulathius fizys, that kifta is a Perfaas meafure. Jonathan and the Targum of J -rufalem tranlate kefirah " a pearl." (Gen. wxiii. 19. Júu xlii. 11.) Or 91. Engliih, fuppoing, as Dr Prideaux does, that a theliel is worth $3^{5}$. A daric is a piece of gold, worth, as Dr Prideaux fays, 25 s. Englim.

KESSE"L, a town of Upper Guelderland, in the Netherland, with a handfome calle. It is the chief towa in the territory of the fame name, and feated on the river Meufe, between Ruremond and Venlo, it being about five miles from each. It was ceded to the king of Prulia by the treaty of Utrecht. E. Long. 6. t3. N. Lat. 41. 22.

KES, ELDORF, a village of Germany, in the circle of Upper Saxony, three miles below Drefden, remarkahle for the battle gained by the hing of Prutlia over the Sasons, on the 15 th of December 1745 .

KESTREL, the Englifh name of a hawk, called allo the ficnnel and the windhover, and by authors the sinninculus and chencris. It builds with us in hollow caks, and feeds on partridges and other birds. See Faico, Orvithology Index.

LEESWICK, a town of Cumberland, fituated on the

fide of a lake in a irvitiul plain, almoft cnempafed with mountains, called the Derwent Fells. It was formerly a town of good note, but now is much decayed.
 Howeser, it is fill noted for its mines and miners, who have a convenient fmelting-houfe on the fide of the river Derwent, the ftream of which is fo managed as to make it work the bellow, hammers, and forgc, as allo to faw boards. "There is a workhoufe here for employing the poor of this parifh and that of Crolsthwait. W. Long. 2. O. N. Lat. 54. 30.

KETCH, a veffel equipped with two mafte, viz. the main-malt and mizen-matt, and ufually from soo to 250 tons burden.-Ketches are principally 1 fed as yachts or as bomb wefiels; the former of which are employed to convey princes of the blood, ambafiadors, or other great perlonages, from one part to another; and the latter are ufed to bombard citadels, towns, or other fortrefies. The bomb ketches are therefore fuanithed with all the apparatus neceflary for a vigorous bombardment; they are built remarkably ftrong, as being fitted with a greater number of riders than any other veffel of war; and indeed this reinforccment is abfolutely neceflary to fuftain the violent hoock produced by the diflharge of their mortars, which would utherwife in a very mort time lhatter them to pieces.

KETTLE, in the art of war, a term the Dutch give to a battery of mortars, becaufe it is funk under ground.

Ketfle Drums, are formed of two large bafins of copper or brafs, rounded at the bottom, and covered over with vellum or goat filu, which is kept fait by a circle of iron, and by leveral holes fattened to the body of the drum, and a like number of fcrews to ferew up and down, and a key for the purpofe. The two bafins are kept fat together by two fraps of leather which go through two rings, and are faftened the one before and the other behind the pommel of the kettle drum's faddle. They have each a banner of filk or damalk, richly embroidered with the fovereign's arms or with thofe of the colonel, and are fringed with filver or gold; and, to preferse them in bad weather, they have each a cover of leather. The drumfticks are of crab-tree or of any other hard wood, ol cight or nine iaches long, with two knobs on the ends, which beat the drum-liead and caufe the lound. The kettledrum with trumpets is the molt martial found of any. Each regiment of horfe has a pair.

Kettle Drummer, a man on horfeback appointed to beat the kettle drums, from which he takes his name. He marches always at the head of the fquadron, -and his polt is on the right when the fquadron is drawn up.

KEVELS, in Ship-building, a frame compofed of two pieces of timber, whofe lower ends relt in a fort of ftep or foot, nailed to the dhip's fide, from whence the upper ends branch outward into arms or horns, fer-. ving to belay the great ropes by which the bottoms of the main-fail and fore fail are extended.

KEIV, a village of Surry, in England, oppofite to Ohd Brentford, 10 miles well from London. Here is a chapel of eafe erected at the expence of ieveral of the nobility and gentry in the neighbourhood, on a piece of ground that was given for that purpofe by the late Qucen Ame, Here the late Mr Molineaux, fecretary

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Kextolm, to the late king, when prince of TVales, liad a fine feat Key. on the Green, which became the refidence of the late prince and princefs of Wales, who greatly improved both the houfe and gardens; now occupied by his prefent majefy, who has greatly enlarged the gardens, and formed a junction with them and Richmond gardems. 'Ihe gardens of Kew are not very large, nor is their fituation by any means advantageous, as it is low and commands no profpects. Originally the ground was one continued dead flat; the foil was in general barren, and without either wood or water. With fo many difadvantages it was not eafy to produce any thing even tolerable in gardening ; but princely manificence, guided by a director equally flitled in cultivating the earth and in the politer arts, overcame all difficulties. What was once a defert is now an Eden. In :758, an act paffed for building a bridge acrofs the Thames to Kew Green ; and a bridge was built of eleven arches; the two piers and their dependant arches on each fide nest the fhore, built of brick and flone; the intermediate arches entirely wood; the centre arch 50 feet wide, and the road over the bridge 30.But this bridge was taken down, and in its place a very elegant one was erected and completed about the year 1791.

KEXHOLM, that part of Finland which borders upon Ruffia. The lake Ladoga croffes it, and divides it into two parts. By the treaty between Rufia and Sweden in 1721 , the Swedes were obliged to abandon the belt part to the Ruffians. The country in general is full of lakes and marihes, thinly inhabited, and badly cultivated. The lake above mentioned is 120 miles in length, and full of fifh.

Kexholas, or Carelgorod, a town of Ruffia, in a territory of the fame name, not very large, but well fortified, and has a frong catlle. The houfes are built with wood. It formerly belonged to the Ruffians, after which the Swedes had poffeffion of it for a whole century ; but it was retaken by the Ruffians in 1710. Near it is a confiderablc falmon filhery. It is feated on two iflands on the north-weft fide of the lake Ladoga, in E. Long. 30. 25. N. Lat. 61. 12. Near it is another town called New Kexholm.

KEY, an inftrument for the opening of locks. See цоск.
L. Molinus has a treatife of keys, De clavibus veterum, printed at Upfal: he derives the Latin name clawis, from the Griek xisuc claudo, "I flut," or from the adverb clam " privately;" and adds, that the ufe of keys is yet unknown in fome parts of Sweden.

The invention of keys is owing to one Theodore of Samos, according to Pliny and Polydore Virgil: but this mult be a miftake, the ufe of keys having been known before the fiege of Troy; mention even feems made of them in the 19 th chapter of Genefis.

Molinus is of opinion, that keys at firft only ferved for the untying certain knots, wherewith they anciently fecured their doors: but the Laconic keys, he maintains, were nearly ahin in ufe to our own; they confifted of three fingle teeth, and made the figure of an E ; of which form there are fill fome to be feen in the cabinets of the curious.
 manner of a male fcrew; which had its correfponding female in a bolt affixed to the door. Key is hence
become a general name for feveral things ferving to thut up or clofe others. See the articic Lock.

Key, or Ker-fone, of an Arch or Vault, is the laft ftone placed a-top thercof; which being wider and fuller at the top than bottom, wedges, as it were, and binds all the relt. The key is different in the different orders: in the Tufcan and Doric it is a plain ftome only projecting; in the Ionic it is cut and waved fomerthat after the manner of confoles; in the Corinthi.n and Compofite it is a confole enriched with foulp. ture, foliages, \&c.

KEY is alfó ufed for ecclefiaftical jurifdiction ; particularly for the power of excommunicating and $a b-$ folving. The Romanilts fay, the pope has the fower of the keys, and can open and thut paradife as he pleafes; grounding their opinion on that expreflion of Jefus Chrilt to Peter, "I will give thee the keys of the Lingdom of heaven." In St Gregory we read, that it was the cultom heretofore for the popes to fend a golden key to princes, wherein they enclofed a little of the filings of St Peter's chairs kept with a world of devotion at Rome ; and that thefe keys were worn in the bofom, as being fuppofed to contain fome wonderful virtues.

KEY is alfo ufed for an index or explanation of a cipher. See Cipher.

Kirs of an Organ, Harpfichord, \&c. thofe little pieces in the fore part of thofe intruments, by means whereof the jacks play, fo as to ftrike the frings. Thefe are in number 28 or 29 . In large organs there are feveral fets of the keys, fome to play the fecondary organ, fome for the main body, fome for the trumpet, and fome for the echoing trumpet, \&c. : in fome there are but a part that play, and the reft are only for ornament. There are 20 flits in the large keys which make half notes. See the article Organ, \&c.

Key, in Muffic, a certain fundamental note or tone, to which the whole piece, be it in cantata, fonata, concerto, \& c. is accommodated, and with which it ufually begins but always ends.

KEY, or शuay, a long wharf, ufually built of fone, by the fide of a barbour or river, and having feveral ftorehoufes for the convenience of lading and difcharging merchant fhips. It is accordingly furnihed with pofts and rings, whereby they are fecured; together with cranes, capterns, and other engines, to lift the goods into or out of the veffels which lie alongfide.

The verb cajare, in old writers, according to Scaliger, fignifies to keep in or refrain; and hence came our termı key or quay, the ground where they are mide being bound in with planks and polts.

KEys are alfo certain funken rocks lying near the furface of the water, particularly in the Wefl Indies.

KEYNSHAM, a town of Somerfethire, 116 miles from London. It is a great thoroughfare in the lower road between Bath and Briftol. They call it proverbially fmoky Keynfham, and with equal reafon they might call it foggy. It has a fine large church, a flone bridge of 15 arches over the Avon to Gloucelterfhire, and another over the river Chew. Its chief trade is malting. It has a charity fchool, a weekly market, and three fairs.

KEYSER's Pillis, a celebrated mercurial medicine, the method of preparing which was purchafed by the

## K I $\Lambda$

French government, and was afterwards publifhed by M. Richard. It is the acetate of mercury. See Chemistry, and Materia Medica, Index.

KEYSLER, Johy George, a learned German antiquarian, was born at Thournes in 1689 . After Illudying at the univerfity of Halle, lee was appointed preceptor to Charles Maximilian and Chrittian Charles, the young counts of Giecli Buchau; with whom be travelled through the chief cities of Germany, France, and the Netherlands, gaining great reputation among the learned as he went along, by illullrating feveral monuments of antiquity, particularly fome fragments of Celtic idols lately difcovered in the cathedral of Paris. Having acquitted himfelf of this charge with great honour, he procured in 1716 the education of two grandfons of Baron Berntorff, firt miniller of thate to his Britannic majefly as elector of Brunfwick Luuenburg. However, obtaining leave in 1718 to wifit England, he was elected a fellow of the Royal Society for a learned eflay De Dea Nehelennia, numine eseterum Walachorum topico: he gave alfo an explanation of the anci-nt monument on Salibury plain called Stonelienge, with A Difiertation on the Confecrated Milstoc of the Druids. Which detached eflays, with others of the lame kind, he publifhed on his return to Hanover, under the title of Antiquitates felecter Septentrionales et Cefticice, \&c. He afterwards made the grand tour with the youns barons, and to this tour we owe the publication of his travels; which were tranllated into Englifh, and publifhed in 1756, in 4 vols. 4 to. Mr Kesiler on his return fpent the remainder of his life under the patronage of his noble pupils, who committed their fine library and mufeum to his care, with a handfome income. He died in 1743.

KIAM, a great river of China, which takes its rife neár the weftern frontier, crofies the whole kingdom eaftrard, and falls into the bay or gulf of Nanking, a little below that city.

KIANG-st, a province of China, bounded on the north by that of Kiang-nan, on the welt by Houquang, on the fouth by Quang-tong, and on the ealt by Fo-kien and Tche-kiang. The country is extremely fertile; but it is fo populous, that it can farcely fup. ply the wants of its inhabitants : on this account they are very economical; which expofes them to the farcalms and raillery of the Chi efe of the other prowinces: howeser, they are people of great lolidity and acutenefs, and have the talent of rifing rapidly to the dignities of the fate. The mountains are covered with fimples; and contain in their bowels mines of gold, filver, lead, iron, and tin; the rice it produces is very delicate, and feveral barks are loaded with it every year for the court. The porcelain made here is the fineit and moft valuable of the empire. This province contains $\mathrm{s}_{3}$ cities of the firl clafs, and -8 of the fecond and third.

Kiang-Nan, a province of China, and one of the molt fertile, commercial, and confequently one of the richeft in the empire. It is bounded on the welt by the provinces of Ho-nan and Hou-quang; on the fouth by Tche-kiang and Kiang-fi; and on the eaft hy the gulf of Nan-king: the ref borders on the province of Chan-tong. The emperors long keut their court in this province; but rearons of flate laving obluct them to move neaice to Tartary, they made choice of Fon. XI. Pas: :1. $^{2}$

Pe-king for the piace of their refidetce. This pro. vince is of vall extent; it contains fourtcen citics of the firit clafs, and ninety-thace of the feconal and third. Thefe cities are very popuious, and there is fcarcely one of them which may not be called a place of trade. Large barks can go to them from all parts; becaufe the whole ccuntry is interfected by lakes, rivers, and canals, which have a communication witls the great river Yang-tfe-kiang, which ruas through the middle of the prowince. Silk Atuff, lacquer ware, ink, paper, and in general every thing that conses froin Nanking, as well as from the other cities of the province, ate much more efteemed, and fetch a higher price, than thofe brought from the neighbouring provinces. In the village of Chang-hai alone, and the villages dependens on it, there are reckoned to be more than 200,000 weavers of common cotton cluths. The manufacturng of thefe cloths gives employment to the greater part of the women. - In feveral places on the fea coall there are found many talt pits, the falt of which is dillributed all over the empire. In thort, this provinice is fo abundant and opulent, that it brings every year in:o the emperor's treafury about $32,000,000$ taels (or ounces of tilver), exclufive of the duties upon every thing exported or imported. The people of this country are civil and ingenious, and acquire the fciences with great facility : hence many of them become eminent in literature, and rife to ofices of importance by their abilities alone. This province is divided into two parts, each of which has a diftinet governor. The governor of the ealfern part relides at Sou-tcheou-fou, that of the weftern at Ngan-king-fou. Each of thefe governors has under his jurifdiction feven fou or cities of the firt clafs.

K1BURG, a town of the canton of Zuricl in Switzerland, with a caftle; feated on the river Theoff, in E. Long. 8. 50. N. Lat. 47.20.

KID, in Zoology, the name by which young goats are called. See Goat and Capra, Mammilia Index.

KIDDER, Dr Richard, a learned Englih bilhop, was born in Suffex, and bred at Cambridge. In 689 , he was intalled dean of Peterborough; and in $\mathbf{1 6 9 1}$, was nominated to the bihopric of Bath and Wells, in the roum of Dr Thomas Ken, who had been deprived for not taking the oatns to King William and Queen Mary. He puislimed, 1. The youns man's itaty. 2. A demonftration of the Melliab, 3 vols 8 vo. 3. A co:nmentary on the five books of Mofes, 2 vols 马vo; and feveral other pious and valuable trats. He was killed with his lady in his bed by the fall of a Aack of chimneys, at his houfe in Wells, during the great form in ifo3. The bifhop, in the differtation prefixed to his commentary on the five book: of Aores, having rellected upón Monfieur L.e Clerc, fome !etters palid between them in Latin, which are publuhed by Le Clerc in his Bibliotheque Chifife.

KIDDER MINSTER, or Keddermistur, a om of Worcelterihire, feated under a hill on the rivir S mur, not far from the Severn, 128 miles from Londo it is a large town of 1183 houfes, with about $602-$ inhabitants, who carry on an extenfive trade in weavig in various branches. In 1735 a carpet manufaztory was eftablithed with fuccefs, to as to emplov in 1770. Ah, se 25 looms; and there are upwards of ice lou:a $\quad \mathrm{mm}$.

Kileg
K ider.
mutat.

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Fitl: is pioyel in the filk and worfted. Abose 5600 hands are employed as finners, \&c. in the carpet looms only

K: nер)-
ping. in the town and neighbowhood; upwards of 1400 ate employed in preparing yain, which is uled in different pats of Fingland in carpeting; and it is luppofed not lefs, than 2000 are employed in the nilk and worted loums in the town and neighbourhoot. The filk manufacture was efablithed ins $175 \%$. The tow:1 is remarkabily healthy, and has allo an estenfive manufaciure of quilting in the loom in imitation of Narleitles quiting. Here is a Frebyterian mecting houfe; and they have a handlome church, two goud fiee fchools, a charity fhool, and two alms houfer, 太s. The town is governed by a bailiff, 12 capital burgeffes, 25 common councilmen, \&ic. wiso have a town hall. It formerly fent members to parliament. Dy the late iniand savigation, it has communication by the junclion of the Severn canal with the rivers Mierfey, Dee, Ribble, Oute, 'lyert, Darwent, Severn, Humber, 'lhames, Avon, Ec. which navigation, including its uindings, exiends above 500 miles, in the counties of Lincoln, Nottingham, York, Lancafter, Weflmorlinel, Chefter, Siaitord, Warwick, Leicet?er, Oxfurd, Worcefter, ©x. This parith extends io Bewdley bidge, has a weekly market, a:nd three fairs. WT. Long. 2. 15. N. Lat. 52. 28 .

KIDDERS, thofe that badge or carry corn, dead victuals, or other merchandife, up and down to fell: every perfon being a commois badger, kidder, lader, or carrier, \&c. Cays the ftat. 5. Eliz. cap. I2. And they are called kindiers, 13 Eliz. can. 25.

KIDDLE, or Kidet, (Nadellus), a dam or wear in a river with a narrow cut in it, for the laying of pots or cther engines to catch fith.

The word is ancient ; for in Magna Charta, cap. 24. we read, Omnes kidellideponantur per Thamefiam et MLedweyam, ef per totam Anglian, nifi per cofierann maris. And by Fing John's charter, power was granted to the city of London, de kidellis amovendis per Thamt farm et Medweyain, A furvey was ordered to be made of the wears, mills, ftanks, and kidells, in the great rivers of England, s. Hen. IV. Filhermen of late corruptly call thefe dams kettles; and they are much ufed in iVales and on the fea coafts of Kemt.

KIDDINGION, a town of Oxfordnire, four miles from Wooditock, and $\$ 2$ from Oxford. It is fituated on the Glym river, which divides the parifh in two parts, viz. Over and Nether Kiddington, in the latter of which fands the church. This parifh was siven by King Ofa in 780 to Worceßter prisry. Here King Ethelred had a palace; in the garden of the manor houfe is an antique font brought from Edward the Cunfeffor's chapel at Inlip, wherein he received baptifrn. In Hill wood near this place is a Roman encampment in extraordinary prefervation, but littie nuticed.

KIUNAPPING, the forcible abduction or fealing away of man, woman, or child, from their own country, and fending them into another. This crime was capital by the Jewinh law: "He that Realeth a man ard lelleth lim, or if he be found in his hand, fhall

+ Exd. wxi. furely be put to death + . So likewife in the civil law,

16. the offence of firiting antay and ftealing men and children, which was called plagium, and the offenders plagiarii, was punithed with death. This is unquef-
timably a very heinons crime, as it robs the king of his fubjects, banithes a man from his country, and may ia its confequence be productive of the moft cruel and difagreeable hardihips; and therefore the comanon lav of England has punifhed it with fine, imprifonment, and pillory. And alfo the itatute 11 and 12 WT. III. c. 7. though principally intended againft pirates, has a clitufe that extends to prevent the leaving of fuch perlons abroad as are thus kidnapped or fpirited arvay; by enacting, that if any captain of a merchant veffel thall (during his being ahroad) force any perfoas on fhure, or wiffully leave him behind, or refile to bring home all fuch men as he c: rried out, if able and defirous to return, he hall fuffer three months irrprifonment.

KIDNEYS, in Anatomy. See Axitony, No iot. Kidney.Bean. See Phaseolus, Botany Inder.
KIEL, a city of Germany, in the duchy of Hol. Rein, in the circle of Lower Saxony, and the refidence of the duke of Holftein Gottorp. It has a caltle, and a univerfity founded in 1665 ; and there is a very cclebrated fair he!d here. It is feated at the bottom of a bay of the Ballic fea called Killeravick, at the mouth of the river Schwentin, in E. Long, $10.1 \%$ N. Lat. 54. 26.

KIGGELARIA, in Bo:amy, a genus of plants belonging to the dicecia clafs; and in the natural method ranking under the $37^{\text {ih }}$ order, Columnferse. See BoTany Inder.

KlGHLEX, a town in tle weft riding of Yorkfhire, fix miles to the fouth-ealt of Skipton in Craven. It fands in a valley furrounded with hills at the meeting of two brooks, which fall into the river Are one mile below it. Every family is fupplicel with water brought to or near their doors in flone troughs from a never-failing furing on the weft fide of it. The parih is fix miles long and two broad, and is 60 miles from the eaft and weft feas; yet at the weft end of it near Camel Crofs is a rifing ground, from which the fprings on the eaft fulle of it run to the eaft fea, and thofe on the weft to the well lea. Py means of inland navigation, this town has a communication with the rivers Merfey, Dee, Ribjle, Oufe, Trent, Darwent, Serern, Humber, Thames, Avon, \&c. which navigation, including its windings, extends above 500 miles, in the counties of Lincoln, Nottingham, Lancalter, Weftmorland, Chetler, Stafford, Wharwick, Leiceftcr, Oxford, Worceler, \&c.

Kilarney. See Killarney.
KIl.BEGGAN, a poll, fair, and borough town of Ireland, in the county of Weftmeath and province of Leinfter, 44 miles from Dublin. It formerly returned two members to parliament; patronage in the Lambert family. It is feated on the river Brofna, over which there is a bridge. There was here a monattery founded in 1200 , and dedicated to the Virgin Mary, and inhabited by monks from the Ciftertian abbey of Melefont. The fairs are two.

KILDA, Sx, one of the Hebrides or Weltern illands of Scotland. It lies in the Atlamic ocean, about $58^{\circ} 30^{\prime}$ north latitude; and is about threc Englith miles in length from eaft to weft, and its breadth from fouth to north not lefs than two. The ground of St Kilda, like much the greateft part of that orer all the High. lands, is much better calculated for pafture than til-
1.s.c. -Refrained by idlencfs, a fault or vice much more pardonable here than in any other pas: of Great Britain, or difcourged by the form of government tinder which they live, the people of the inland fluty to rear up sheep, and to kill widd-fowl, much more than to engage deeply in the more tuilfome bulinefs of husbandry.- All the ground hitherto cultivated in this illand lies round the village. The foil is thin, full of gravel, and of confequence very tharp. This, though naturally poor, is, however, rendered extremely fertile, by the fingular indultry of very judicious huff bondmen: thefe prepare and manure every inch of their ground, fo as to convert it into a kind of garin. All the imfruments of agriculture they use, or indeed sequise, according to their fyftem, are a fade, a mall, and a rake or harrow. After turning up the ground with a Cade, they rake or harrow it very carefully, removing every foal lone, every noxious root or growing weed that falls in their way, and pound down every tiff clod into duff. It is certain that a fall number of acres well prepared in St Gilda, in this manner, will yield more profit to the husbandman than a much greater number when roughly handled in a hurry, as is the cafe in the other Weftern itles. The people of St Gilda fow and reap much earlier than any of their neighbours on the weftern coast of Scotland. The here of the fun, reflected from the hills and rocks into a low valley facing the fouth-eaft, muff in the fummer time be quite intenfe; and however rainy the climate is, the corn muff for thee reafons grow very fall and ripen early.

The harveft is commonly over at this place before the beginning of September: and thould it fall out otherwise, the whole crop would be amon deftroyed by the equinoctial forms. All the flanders on the wefiem coal have great reafon to dread the fury of autumnal tempefts: thee, together with the eaceffive quantities of rain they have generally throughout leven or eight months of the year, are undoubtedly the mol difadvantageous and unhappy circumfances of their lives.

Barley and oats are the only forts of grain known at St Kilda; nor does it lem calculated for any other. Fifty bolls of the former, old Highland meafure, are every year brought from thence to Harris; and all the Weflern inland hardly produce any thing fo good of the kind. Potatoes have been introduced among that people only of late, and hitherto they have railed but foal quantities of them. The only appearance of a garden in this whole land, fo the natives call their principal inland in their own language, is no more than a very inconfederable piece of ground, which is enclofed and planted with forme cabbages. On the eat fie of the inland, at a fort difance from the bay, lies the village, where the whole body of this little poopile (the number amounting in 1764 to 88 , and in 1799 to about 120 ) live together like the inhabitans of a town or city. It is certain that the inhabitalts $\because$ ere much more numerous formerly than at frelent; and the inland, if under proper regulations, might eafily Support 300 fouls. Martin, who vifited it about the end of the lat century, found 180 perfums there; but about the year 17.10 , one of the poople coming to the Bland of Hartis, was feized with the finallyos and died. Unluckily his clothes were
carried away by one of his relations next year ; and thus was the infection communicated, which made fuck havock, that only four grown perfons were left alive. The houses are built in two rows, regular, and lacing one another; with a tolerable causeway in the middle, which they call the firer. Thee habitations are made and contrived in a very uncommon manner. Every one of there is flat in the roof, or nearly fo, much line the houses of forme oriental nations. That from any one of there the St Kildans hare borrowed their manner of building, no man of fenfe will entertain a fafpicion. They have been taught this leffon by their own reafor, improved by experience. The place in which their lot has fallen is peculiarly fubject to violent fqualls and furious hurricanes: were their houfer ratted higher than at prefent, they believe the fort winter form would bring them down about their ears. Jor this reafon the precaution they take in giving them roofs much flatter than ordinary feems to be not altogether unnecefiary. The walls of the fe habitations are made of a rough gritty kind of fines, huddled up together in hate, without either lime or mortar, from eight to nine feet high. In the heart of the walls are the beds, which are overlaid with flags, and large enough to contain three perfons. In the fido of every bed is an opening, by way of door, which is much too mar row and low to answer that purpofe. All their dwelling houses are divided into two apartments by partition walls. In the divifion next the door, which is much the large, they have that cattle flatbed during the whole winter feafon; the other ferves for kitchen, hall, and bedroom.

It will be readily expected, that a race of men and women bred in St Kilda mull be a very nuvenly ge. Deration, and every way inelegant. It is indeed imppolfible to defend them from this imputation. Their method of preparing a fort of manure, to them indeed of vat ufa, proves that they are very indelicate. After having burnt a confdetable quantity of dried turf; they fpread the afhes with the nicest care over the felons of that apartment in which they eat and flees. Thefc allee, fo exactly laid out, they cover with a rich? friable fort of earth; over this bed of earth they fatter a proportionable heap of that duff into which peatare apt to crumble away: this done, they water, tread. and beat the whole comport into a hand floor, on which they immediately make new fires very large, and never extinguined till they have a funicient lock of new afhes on hand. The fame operations are repeated with a never-failing punctuality, till they are juft ready to s Sow their barley; by that time the walls of their houses are fum down, or, to freak more properly, the floors rifen about four or five feet hight.
'Jo have room enough for accumulating heaps of this compo one above another, the ancient St Nildams had ingenuity enough to contrive their beds within the linings of their walls; and it was for the fame reafon they took care to raife the fe walls to a height far from being common in the other Wreftem inands.

It is certain that cleanliness must contribute greatly to health, and of courfe longevity; but in Site of that inflance of indelicacy now given, and many mure which might have been added, the people of this inland are not more short lived than other men. Their total want

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кïdı. of thofe articles of lusury, which have fo natural a tendency to deitroy the conititution of the human body, and their moderate exerciles, will, together with fome other circumftances, keep the balance of liie equal enough between them and thofe who are abfolute ftrangers to flovenlinefs.

Befides the dwelling houfes already defcribed, there are a prodicions number of little cells difperfed over ell the ifland; which confift entirely of itones, without any the finalleft help of timber. Thefe cells are from 12 to 18 feet in length, and a little more than feven in height. 'Their breadth at the foundation is nearly equal to the height. Every fone hangs above that immodiately below, not perpendicularly, but inclines forward, fo as to be nearer the oppofite fide of the grotto, and thas by imperceptible degrees till the two lighef courfes are near enough to be covered by a fingle flag at the top. To hinder the rain from falling down between the interfices above, the upper pari of the building is overlaid with turf which looks like a fine green fward while new. The inhabitants fecure their peats, eggs, and wild fowl, within thefe fmall repofitories: every Si Kildan has his thare of them, in proportion to the extent of land he poffeffes, or the rent he pays to the feward. From the conftruction of thefe cells, and the toil they muf have colt before they could hare been finithed, it feems plain, that thofe who put them together, were, if not more ingenious than their neighbours in the adjacent inlands, at leaft more induftrious than their own fucceffors.

The St Kilda method of catching wild fowl is very entertaining. The men are divided into fowling parties, each of which confilts generally of four perfons diftinguifhed by their agility and Kill. Each party mult have at leaft one rope about 30 fathoms long; this rope is made out of a Itrong raw cow hide, falted for that very purpofe, and cut circularly into three thongs all of equal length; thefe thongs being clofely twined together, form a three-fold cord, able to fultuin a great weight, and durable enough to laft for about two generations: to prevent the injuries it would otherwife reccive from the tharp edges of the rocks, againt which they mul frequently frike, the cord is lined with lhcep okins, dreled in much the fame manner.

This rope is a piece of furniture indifpenfably neceffary, and the mo? valuable implement a man of fubllance can be poflelied of in St Kilda. In the tefthment of a father. it makes the very firf article in fatvour of his eldelt fon: thould it happen to fall to a darghter's lare, in default of male loeirs, it is reckoned equal in value to the belt two cows in the ifland.

By the help of fuch ropes, the people of the greateft prowefs and experience here traverfe and examine rocks prodigioully ligh. Linked together in couples, each having either end of the cord faftened about his wait, they go frequently through the moll dreadful precipices: when one of the two defcends, his collcasue plants limfelf on a ftrong thelf, and takes care to have fuch fure looting there, thent il his fellow adrenturer mahes a falfe ftep, and tumbles over, he may be able to fave him.

The following anecdote of a Aeward of St Kilda's deputy will give the reader a fpecimen of the dangers
they undergo, and at the fame time of the uncommon ftrength of the St Kildans. 'Chis man, obferving his colleasue lofe his hold, and tumbling down from above, placed himfelf fo firmly upon the thelf where he flcod, that he futlained the weight of his friend, after falling the whole length of the rope. Undoubted!y thefe are ffupendous afventures, and equal to any thing in the feats of chivalry. Mr Macaulay gives an inftance of the dexterity of the inhabitants of St Kilda in catching wild fowl, to which he was an eye witnefs. Two noted henoes were drawn out from among all the ableft men of the commmity: one of them fixed bimfelf on a craggy thelf; his companion went down 60 fathoms below him; and after having darted himielf away from the face of a molt alarming precipice hanging over the ocean, lie began to play his: gambols; lie fung merrily, and laughed very heartıly : after having performed feveral antic tricks, and given all the entertainment his art could afford, he returned in triumph, and full of his own merit, with a large ftring of fowls about his neck, and a number of eggs in his bofom. This method of fowling refembles that of the Norwegians, as deferibed by Bilhop Puntoppidan.

KILDARE, a town of Ireland, and capital of a county of the fame name, is fituated 28 miles fouthweft of Dublin. It is governed by a fovereign, recorder, and two portrieves. The church of Kildare was very early erected into a cathedral with epilcopal jurildiction, which dignity it retains to this day; the cathedral, however, has been for feveral years neglected, and at prefent is almof in ruins. St Brigid founted a nunnery at Kildare, which afterwards came into the polfeffion of the regular canons of St Augutlin; this faint died 1 it Felruary 523, and was interred bere; but her remains were afterwards removed to the cathedral church of Down. In the year 638, Aod Duih or Black Hugh king of Leinter abdicated his throne, and took on him the Auguftinian babit in this abbey; he was afterwards chofen abbot and bihop of Kildarc, and died on the rcth May. In 756, Eiglitigin the ably who was alfo bifhop of Kildare, was killed by a priell as he was celebrating mafs at the altar of St Brigid; fince which time no prielt whatfoever was allowed to celebrate mafs in that church in the prefence of a bifthop. In 1220 Henry de Lourdres archbihop of Dublin put out the fire called inexringui/bable, which had been preferved fiom a very early time by the muns of St Brigid. This fire was horsever lighted, and continued to burn till the total fuppreflion of monateries. Here was alio a Gray abbey on the fouth fide of the town, erected for friars of the Francifan order, or, as they were more generally called, Gray firars, in the year 1260 , by Lord William de Veley; but the building was completed by Gerald Fitzmaurice, Lord Offaley. A confiderable part of this building yet remains, which appears not to have been of very great extent. A houle for White fitars was likewife founded in this town by William de Vefey in 1290 ; the round tower here is 130 feet high, built of white granite to about 12 feet above the $g$ gnund, and the relt of common olue ftone. The pedeftal of an old crofs is fiill to be feen liere; and the uppor fart of a crofs lies near it on the ground.

Kildare, a county of Ireland, in the province of Leinfter, which is 37 miles in length and 20 in breadth;

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iiderkin, breadth; and is bounded on the eaf by Dublin and iikenny. Wicklow, on the weft by King's and Qucen's counties, on the north by Eaft Meath, and on the fouth by Carlow. It is a fine arable country, well watered by the Barrow, Liffey, and other rivers, and well inhabited and cultivated, containing 228,590 Irilh plantation acres, 100 parilhes, 10 baronies, and 4 boroughs. The chief town is of the fame name, and gave title of earl to the noble family of Fitzgerald. It was anciently called Chilledair, i. e. "the wood of oaks," from a large forell which comprehended the middle part of this county; in the centre of this wood was a large plain, facred to heathen fuperfition, and at prefent called the Ciurrash of Kildare; at the extremity of this plain, about the commencement of the oth century, St Brigid, one of the heathen veftals, on her converlion to the Chriftian faith, founded, with the affirtance of St Conleth, a church and monaftery; near which, after the manner of the Pagans, St Brigid kept the facred fire in a cell, the ruins of which are fill rifible.

KILDERKIN, a lizuid meafure, containing two frkins.

KlLK ENNY, a county of Ireland, in the province of Leinller, bounded on the fouth by the county of Waterford, on the north by the Queen's comty, on the weft by the county of Tipperary, on the eat by the counties of Wexford and Carlow, and on the northweft by Upper Oflory. The greateit length of this county from north to fouth is 38 miles, the breadth from eaft to weft 18 ; and it contains 10 baronies. It is one of the molt healthful, pleafant, and populous coonties of Ireland. It contains 287,650 Irifh plantation acres, 96 parihhes, 9 baronies, and 7 boroughs. Gilbert Clare, earl of Glouce?ter and Hereford, marrying Ifabella, one of the daughters and co-heirefles of William earl Marfhal, received as her dower the county of Kilkenny.

Kiliensy, the capital of a county of the fame name in Ireland, fituated in the province of Leinfter, 57. miles fouth-weft of Dub!in. It takes its name from the cell or church of Canic, who was an eminent hermit in this country; and is one of the moft elegant cities in the kingdom. It is the feat of the bifhop of Offory, which was tranflated from Agabo in Olfory, about the end of Henry Il's reign, by Bifhop O'Dutlany. The city is pleafantly fituated on the Neor, a narigable river that difcharges itfelf into the harbour of Waterford. It is faid of Kilkenny, that its air is without fog, its water without mud, its fire without fmoke, and its ftreets paved with marble. The two latter are indeed matter of fact; for they have in the neighbourhood, a kind of coal that burns from firft to laft without fmoke, and pretty much refembles the Welih coal. Moft of the treets alfo are paved with a fone called black marhle; of which there are large quarries near the town. This tone takes a fine polifh, and is beautifully intermixed with white granite. The air too is good and healtiby, though not remarkably cleares than in many other parts of the kingdom. The city is governed by a mayor, recorder, aldermen, and fheriffc. It comprifes two towns, viz. Kilkenny fo called, and Irifh town, each of which formerly fent two members to parliament, and both.
together are computed to contain abeut $2=, 2 \varepsilon \circ$ inh.ivj- Kilhenny. tants. This city was once of great conlequence, as may be feen by the venerable ruins yet remaining of churches, monalleries, and aobers, which even no:v in their dilapidated tate exhibit hech fyecimens of exquifite tafte in architedure as may vie with any modern improvements; and the remains of its gates, towers, and walls, hoow it to have been a place of great ffrength. Here too at different times parliaments were held, in which fome remarkable flatutes were paffed. It has two churches, and feveral Catholic chapels; barracks for a troop of horfe and four companies of foot: a market is held twice in the week, and there are feven fairs in the year.- Irith town is more properly called the borough of St Canice, vulgarly Kenny; the patronage of which is in the bilhop of Ofiory. The cathedral, which ftands in a fequeftered fituation, is a venerable Gothic pile built about 500 years ago ; atid clofe to it is one of thofe remarkable round towers which bave fo much engaged the attention of travellers. The bifhop's palace is a handfomé building, and communicates by a covered paffage with the church. The cafle was firft built in 1195, on the fite of one deffroyed by the Irifh in 1173 . The fituation in a military view was mot eligible: the ground was originally a cenoid, the ellirticul fide abruta and precipitous, with the river runaing rapidly at its bafe: here the natural rampart was fuced with a wall of folid mafonry 40 feet high ; the other parts were defended by baftions, curtains, towers, and outworks; and on the fummit the caftle was erected. This place, as it now ftands, was built by the anceltors of the dukes of Ormond : here the Ortround farnily reffided; and it is now in the poffefion of Mr Butler, a defcendant of that illuftrious race. The college originally founded by the Ormond family is rebuilt in a flyle of elegance and convenience. The tholfel and market houle are both good buildings : and over the latter is a fuite of rooms, in which during the winter and at races and allizes times, affemblies are held. There are two very fine bridges of cut marble over the Neor; John's bridge particularly is light and elegant. The Oimond family built and endowed a free fchuol in this city. Here are the mins of three old monafleries, cailed St John's, St Francis's, and the Black albey: belonging to the later are the remains of feveral old monuments, almoft buried in the ruins; and the courts of the others are converted into barracks. The manufąures chiefly carried on here are, coarfe woollen cloths, blankets of extraordinary fine quality, and confiderable quantities of flarch. In the neighbourhood alfo are made very beautiful chimney-pieces of that fpecies of flone already mentioned, called Kilkenny marble: they are cut and polifhed by the power of water, a mill for that purpofe being invented by a Mr Colles. The Kilkenny coal pits are within nine miles of the town. This city came by marriage into the ancient family of Le Defpencer. It was incorporated by charter from King James I. in 16 c 9 . The market crofs of Kilkemy continued an ornament to the city until 1771, when it was taken down; the date on it was MCCC. Sir James Ware mentions Billop Cantwell's rebuilding the great bridge of Kilkenny, thrown down by an inundation about the year 1447 . It appears alfo that St Joha's bridge

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Killike, fell down by a great flood in 150 f ; and en 2,1 OitoK1! as 5.5 y . ber 1763 , by another like circumliance, G:cen's bridge
near the cathedral fell.- The borougl: of st Canice, or Irill town, always enjoyed very ancient preferiptive 1ighes. A clufe roll of 5 Ediward 111. A. D. 1376, forbide the magillrates of hilkenny to cbftrue the dale of vipunls in the market of Irih torm, of wition the crof, under the pretence of cunom for murase: a:nd leat the ample grants made to Kilkenny mi, ht be interpreted fo as to include lrith town, the corporation of the latter lecured their ancient rights by letters. patent, 15 Edward IV. A. D. 1474 . Thele renew their fomer frivileres, and appuint a portrieve to be cl.ofen every 2 ift September, and fisorn into office on the 1 th Ottober. The portrieve's prifon was at Ticy-gate. Whenever the mayor of Kilkenny came within iVatcr-gate, he dropt down the point of the city fuord, to thow he claimed no pre-eminence within the borough.

KllLAlOE, a bilhop's fee in the county of Clare and province of Munfler, in Ireland, 86 miles from Dublin, otherwife Lounia. It was anciently written: Kill-ia-Lua, i. e. " the church of Lua," from Lua, or Molua, who about the beginning of the 6th ceniury founded an abbey near this place. St Molua appears to have derived his name from Loan:a, the place of his refidence, as was cuftomary amongit the ancient lrith. On the death of S: Molua, St Flannan his difciple, and fon of the chief of the diftrict, was confecrated bithop of this place at Roue about the year 639, and the charch endowed with contiderabie cflates by his father Theodorick. Towards the clofe of the 12th centary, the ancient fee of Ruficea was united to that of Killaloe; from which period thefe united bihoprics have been governed by the fame bithops. At Killaloe is a bridge over the Shannon of 14 archics; and there is a conliderable falmon and ecl filhery. There are many ancient buildangs in and about this town. The cathedral is a Gothic edifice in form of a crofs, with the fteeple in the centre, fupported by four arches; it was built by Donald king of limerick in 1160 . There is a building near it, once the oratory of St Molua; and there is another of the fame kind in an illand on the Shannon, haring marks of fill higher antiquity. The fee houfe of the biflop is at Clansford, vear to Killaloe. Acjoining to the cathedral are yet fome remains of the maufoleum of Brien Boru.

KILLARNEY, a pof town of Ireland in the county of Kerry and province of Nunfter, feated near a fine lake called Lough Lean, or lake of Killamey. It is diftant 143 miles from Dublin, and has two fairs. Within a mile and a half of this place are the ruins of the cathedral of Aghadoe, an ancient bifhoprick united to Ardfert; and within four miles the runs of Aglifin chutch. At this town is the feat and gardens af I.ord Kenmore.

The beautiful lake of killarrey is divided properly iuto three parts, called the lusver, miadle, and zapper lake. The northern or lower lake is fix miles in lens th and from three to four in breadth, and the to:n is fituated on its northern thore. The country on this and the taftern boundary is rather of a tame characier; but is here and there diverfified with gentle fwells, many of which afford delightful profpects of the lake, the
ithund, and farrounding feencry. The fouthern fiore Killart is compred of immenfe mountains, iimg duruptly from the uster, and covered with woons of the finett timber. From the centre of the lahe the सiew of this range is athonilhingly fubline, Irefen:ing to the eye an extent of forelt tix miles in length, and from half a mule to a mile and a half in ureadsh, hanging in a robe of rich luxsiance on the lides of two mountai is, whole bare tops rifing above the whole form a jerfect contralt to the verdure of the lower region. On the fide of one of thcere mountains is O'Sulfivan's calcale, which falls into the lake with a ruar that ftrikes the timid with awe on approaching it . The view of this theet of water is uncommonly fine, appearing as is it we:e defcending from an arch of wood, which overhangs it about $; 0$ feet in height from the point of view. Cuafting along this thore affords an almott endlefs ente:tainment, every change of pofion prefenting a new fcene; and rocks hollowed and worn iato a variety of forms by the waves, and the tress and n:rubs butaing from the pores of the faplefs fione, forced to aftume the noll uncouth thapes to adapt themfelves to their fantafic fituations. The illands are not fo numerous in this as in the upper lake; but there is one of uncommon beauty, viz. Innisfallen, nearly oppofite to O'sulivan's cafcade:- It contains 18 Irith acres. The coalt is formed into a variety of bays and promontoliec, firited and crowned with arbutus, holly, and other fhrubs and irees; the intefior parts are diverfitied with hills, and dales, and gentle declivities, on which every tree and hrob appears to adrantage : the foil is rich even to esuberance; and trees of the largen fize incline acrofs the vales, forming natural arches, with isy entwining in the branches, and hanging in feltoons of foliage. The promontory of Mucrufs, which disides the upper from the lower lake, is a peffect land of enchantment; there is a road carried through the centre of the promontory, which unfolds all the interior beauties of the place. Amongt the diflant mountains, Turk appears an object of magnificence; and Mangerton's loftier, though lefs interefling fummit, rears it felf above the whole. The paffage to the upper lake is round the extrenity of Mucrufs, which confines it on one fide, and the approaching mountains on the other. Here is the celebrated rock called the eagle's reff, which produces wonderful echoes. A French horn founded here, raifes a concert fuperior to 100 inflruments; and the report of a fingle cannon is anfivered by a fucceffion of peals refembling the loudeft thunder, which feems to travel the furrounding focnery, and dic away among the diflant mountains. The upper lake is four miles in length, and from two to three in breadth; and is almon furrounded by mountains, from which defeend a number of beautiful calades. The inlands in this lake are numerous, and afford an amazing variety of picturefque views.-The centre lake, which communicates with the upper, is but froall in comparifon with the other two, and cannot boalt of equal variety. The fhores, however, are in many places indented with benutiful bays, furrourided with dark groves of trees, fome of which have a mott picture :ue appearance wi, en viewed from the water. The taftern boundary is formed by the baie of Mangerton, down the fteep fide of which defeends a calcade vifible for 150 yards: this fall of water is fupplied by a circular

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lake near the furmit of the mumban, called the Devil's Parnch Eunt; which oin account of its immente depth, and the continual orerthow of water, is conlidered as one of the greatell curiofities in Killarmey. Wr Sinith feer. to think, that one of the beft profnects this admined lake afiords, is from a ti.ing gicund near the suined cathersal of Aghadoe.

The lake of hillarney is otherwife called Lo::Sn Lane, or Lorh Lenn, 5rom its being farrounded by high mountains. Nenuiu, fiys, that thefe lakes were encompafled by four circles of mines; the fref of tin, the fecond of lead, the third of iron, and the fourth of copper. In the feveral momtains adjacent to the lakes are fill to be feen the veftiges of the ancient mines of iron, lad, and copter; but tin has not been riforercd. Silver and gold are faid by the Irihantiquaries to have been found in the early ages: but this is fimewhat doubtiul, efecially in any configerab? quantioy, tho:agh fume filser probaidy was extracted from the lead ore, and fmall quantitics of gold might have been obtained from the sellow copyer ore of Mucrufs. Harever, in the neighbourhoud of thele lakes were found in the early ages, as well as at prefent, pebbics of feveral colours, which taking a teautiou polith, the ancient lrith wore in their ears, girdles, and difierent articles of their drefs and furniture.

KiLIIs $\mathrm{S}_{\mathrm{S}}$, a gerius of ftomes belonging to the argillaccons clats, found chichy in Cormwa'l in England. lis texture is eithe: larellar or coarfely granular; the Fecinc grasity from 2630 to 2666 . It contains 63 parts of filiceus carth, 25 of argillacegus, 9 of magnefin, and $\sigma$ of iron. The greenifi kind contains more iron, and gives a green tinctare to the nitrous acid.

KILLICRANKIE, a roted pa?s of Perthfinire in Scotland. It is formed by the lofty mountans innpending orer the river Garie, whicl: rathes through in a deep, dari:fome, and horrid channel, beneath. In the latt century this was a pafs of much danger and dificulty ; a paih lianging over a trennendous precipice threatencd deftruction to the leat falle ftep of the traveller: at prefent a fine road formed by the foldicry lent by government, and encouraged by an additional $6 d$, per day, gives an eally acce?s to the remote Higblands; and the two fides are juined by a fise arch.

Near the norsh end of this pafs, in its open and unimproved flate, ws fought in the year 1689 the battle of Kiliecrankie, between the adherents of Iames II. under Vifount Dandee, and of William llI, under Geretral Ríackay Dundees army was very much infe. rive to that of Nackay. When he came in figlat of the later, he found them formed in cight batalions ready for action. "Ihre" confilled of 4500 foot, and two t:co, is of horfe. 'ithe Highlanders under Dancee amourited to little more than half that number. Thefe he renged iallantly in order of battle. Naclean, with his tribe, formed the sight wing. The Macdonalds of Sky, under the chicftain's cldeft fon, formed the left. The Camerons, the Macdonalds of Glengary, the followers of Clawonald, and few Irih auviliaries, wise i: the remtre. A troop of horfe were paced befin! under Sir William Wallace. The officers fent by James from Ireland were ditributed through all the
line. This whole army taod in ficht of the enerry for Killic-an. foveral hours on the lteep fide of a hill, which faced kic, the narrow plain where Mackay had formed lis line. $\underbrace{\text { Non }}_{\text {Killgrew }}$ Burdee withed for the approach of night; a leafon fuised for cither victory or tlight.

At five of the clock in the afternom, a kiarl of light fkimilh began between the right wint of the Figh landess and the left of the enemy. But neither amy withing to change their ground, the firing wan difcontinued for three hours, Dundee in the mean tirce Hlw from tribe to thibe, and animated them to astion. At eight of the clock he gave the fignal for laztle, and charged the enemy in perfon at the head of the horfe. The 1 lighlanders in deep columans rulhed fuldenly down the bill. They kept their thot till they were within a pike's length of the eneny; and having fired their mulkets, fell upoi them frord in hand. Nackay's left wing could not for a momert fuftain the thock. They were driven by the Macleans with great flaughter from the field. The Macdonalds on the left of the Highlanders, were not equally fucceffful. Colonel Hallings's regiment of fuot flood their ground. They even forced the Macoonalds to retreat. Maclean, wi:h a ferr of his tribe, and Sir Eran Cameron at the head of his clan, feil fuddcnly oa the flank oi this gallant regiment, and forced them to give way. The flaughter ended not with the battle. Two thoia fand fell in the field and the tight. The tent, baggagc, artillery, and provitions of the enemy, and even King Willian's Dutch flandard, which was carried by Mackay's regiment, fell into the hands of the Highlanders. The victory was now complete. But the Highlanders loit their galiant leader. Perceiving the unexpected refittance of Colonel Hafings's regiment, and the confufion of the Macdonalds, Dandce rode rapidly to the left wing. As he was railing his arm, and printing to the Camerons to advance, he received a ball in his fide. The wound proved mortal; and with Duadce Fell all the hopes of King James at that tinie.

KllillGRETW, Willinal, cldeff fon of Sir Rober: Killigrew knight, was bora in $\mathbf{1}$ (605. He was gente? man-ulher of the privy chamber to King Charles I. and on the Reflcration of Charles 11. ithen the laiter married the Princefs Catharine of Portugal, he was created vice-chamberlain; in which fation he continued 22 years, and died in 1693 . He was the author of four plays, which, though now thrown afide, were much applauded by the poets of that time, particularly by Waller.

Khiditgelw, Tho::3ns, brother of the former, was born in 16u; and was mucla ditlinguithed in lis time for wit. He was pase of honour to King Clarles I. and groom of the bedchaniber to Charles 11. with whom Le fufiered may zears exile ; during which lie applied his leifure hours to the fudy of poe:ry, and to the compolition of feveral plays. After the Relloration le contimed in ligh favour with the king, and had frequanty accefs to him when lie was denied to the firf pects in the realm; and being a man of great wit and livelinefs of parts, and having from his long intimacy witly that monarch, and leing continually about his perfon durinit his troubles, acquired a freedom and familinity with him, which even the pomp of majefly afterwards could not check in him; l:o femetimes, by way of jelt,

## K I L [ 4.5 j ] K I L

Killigrew. which King Charles was ever fond of, if genuine, even (i $\quad, \quad \therefore$ himfelf was the object of the fatire, would adsenturc bold truths which fcarcely any one befides Hould have dared even to hint at. One flory in particular is related of him, which if true is a ftrong proof of the great lengths he would fometimes proceed $\mathrm{j}_{\mathrm{n}}$ his freedoms of this kind, which is as follows:When the king's unbounded palfion for women had given his miftrefs fuch an afcendant over him, that, like She effeminate Perlian monarch, he was much fitter to have handled a diftaff than to wield a feeptre, and for the converfation of his concubines utterly neglected the mof important affairs of flate, Mr Killigrew went to pay his majefly a vifit in his private apartments, habited like a pilgrim who was bent on a long journey. The king, furprifed at the oddity of his appearance, immediately afked him what was the meaning of it, and whether he was going? "To hell," bluntly replied the wag. "Prithee (faid the king, what can your errand be to that place ?" To fetch back Oliver Cromwell (rejoined he), that he may take fome care of the affairs of E.ngland, for his fuccefior takes none at all.-One more flory is related of him, which is not barren of humour. King Charles's fondnefs for pleafure, to which he almof always made bufnefs give way, ufed frequently to delay affairs of confequence, from his majefty's difappointing the council of his prefence when met for the defpatch of bufinefs, which neglect gave great difgull and offence to many of thofe who were treated with this feeming difrefpect. On one of thefe occafions the dukc of Lauderdale, who was naturally impetuous and turbulent, quitted the council chamber in a violent paffion; and meeting Mr Killigresw prefently after, exprefled himfelf on the occafion in very difrefpectful terms of his majefly. Killigrew begged his grace to moderate his paffion, and offered to lay him a wager of 1001. that he himfelf would prevail on his majefly to come to council in half an hour. The duke, furprifed at the boldnefs of the afiertion, and warmed by his refentment againft the king, accepted the wager ; on which Killigrew immediately went to the king, and without ceremony told hum what had happened; adding thefe words, " 1 know that your majefly hates Lauderdale, though the neceffity of your affairs compels you to carry an outward appearance of civility: now, if you choofe to get rid of a man who is thas difagreeable to you, you need only go this once to cour cil ; for I know his covetous difpofition to perfictiy, that I am well perfuaded, rather than pay this 1001. he would hang himfelf out of the way, and never plague you more." The king was fo pleafed with the archnefs of this obfervation, that he immediately replied, " IV ell then, Killigrew, I pofitively will go;" and kept his word accordingly.-Killigrew died in 1682 , and was buied in Weftmin'er abbey.

K:lagrew, Anne, "a Grace for beauty, and a Mure for "it," as Mr Wood fays, was the daughter of Dr Henry Killigrew, brother of the two foregoing, ard was born a little before the Reforation. She Frave early indications of genius, and became eminent in the arts both of poetry ard painting. She diew the duke of Sork and liis duchefs to whom the was m id of honour, as well as fuveral other nortraits and hiftory pisces: and crowned all her otier acrouplilhments with unblenifhed virtue and exemplary piety.

Mr Dryden feems quite lavifh in her praife, though Killitea Wood affures us he has faid no more of her than Killous fhe was equal if not fuperior to. The amiable young woman died of the fmallipox in 1685 ; and the year after her poems were publifhed in a thin quarto volume.

KILLILEAGH, a town of Ireland, in the county of Down and province of Ulfer, So miles from Dublin; otherwife written Killyleagh. It is the principal torm in the barony of Duffrin ; and feated on an arm of the lake of Strangford, from which it is fupplied with a great variety of fifh. The family of the Hamiltons created firf Lords Clanbois, and afterwards earls of Clanorafill, had thcir feat and refidence here in a cafle flanding at the upper end of the great ftreet; at the lower end of the flreet is a little fafc bay, where hips lie flieltered from all winds; in the town are fome good houfes, a decent market-houfe, a horfe barrack, and a Prefbyterian meeting houfe. On an eminence a finall diftance from the town is a handlome church built in the form of a crofs. This place fuffered much in the calamitous year 1641. It is now thriving, and the linen manufacture carried on in it, and fine thread made, for which it has a great demand. It formerly returned two members to parliament. The celebrated naturalift and eminent phyfician Sir Hans Sloane was born here 16th April 1660, and his father Alexander Sloane was at the head of that colony of Scots which King James I. fettled in the place. 'Ihis town was incorporated by that king at the inflance of the firl earl of Clanbois.
Killough (otherwife Port St Arse), a port town of Ireland, fituated in the county of Down and province of Ulfter, 76 miles from Dublin. It lies north of St John's Point, and has a good quay, where thips lie very fafe. The town is agreeably fituated; the fea flowing all along the backs of the houfes, where fhips ride in full view of the inhabitants. There is here a good church, and a horfe barrack. They have good filling in the bay; but the principal trade of the place confirts in the exportation of barley, and the importation of fuch commodities as are confumed in the adjacent country. A manufacture of falt is alfo carried on with great advantagc. The fairs held here are five. At a fmall diftance from the town is a charter working fchool for the reception of 20 children, which was fet on foot by the late Mr Juftice Ward. Tlicre is a remarkable well here called St Sccrdin's svell, and highly efteemed for the exiraordinary lightnef, of its water. It guthes out of a high rocky bank, clofe upon the fhore, and is obferved never to diminifh its quantity in the drieff feafon. There is allo a mineral fpring near the fchool, the waters of which the inhabitants affirn to be both purgative and emetic. At a fmall diflance from the town near the fea is a rock in which there is an oblong hole, from whence at the ebbing and flowing of the tide a ftrange noife is heard fomewhat refembling the found of a huntfman's horn. In an open field about a quarter of a mile from the town towards St John's point there is a very curious cave, which has a winding pafiage two feet and a half broad, with three doors in it befides the entrance, and leading to a circular chamber three yards in dianeter, where there is a fine limpid well. The cave is about 27 yards long.

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## K I I [ K $\because 57] \quad \mathrm{K}$ I M

Killyhers Kizzorsar Harlour is tolerally fale anal commodi-Kilmal- Ous; a fimall degree of castion, however, is necellary in lock. entraiace, covered at half fios, commonly called the water rock. Either to the eath or we.t of this rock is a fecure paffage, the inlet lying fouth by eall and noith by welt. On the welt fide of the rock open to Concy illand is a llrong quay, and a bafon for thips, where they are defended from all winds, within which the harbour on both fides allords go. d anchorage for veffels of 150 tons. At the end of the quay the channel is too vards wide. The bay of Killough is formed by Rin-fad and the Lons point to the cant, and St John's point to the weft, as the inner harbour is by a penin:fula called Coney ifle from the number of rabbits thereon, and not Cane ifle as Sir William Petty fuppofes. An impettous fea rans on all this coaft in forms and fpring tides.

KILLYBEGS, a borough and fair torn in the county of Donegal and province of Ulfer, 123 miles from Dublin. It is fituated on the north fide of Donegal bay; but is a place of no great trade, though it las a harbour fpacious enough to contain a large fleet: it has a bold and ample opening to the fea on the fouth, and is fecured within by the thelter of high lands furrounding it; fo that veffels may enter at any time of the tide, there being from 5 to 8 fathoms water. The herring filhery is the moft conliderable of any carried on here; but the town is likely to increafe in trade and confequence.

KILM AINHAM, a then of Ireland, fituated about half a mile from Dublin. It has a felfion houle and hand?ome gaol ; and hete the quarter felfions are held for the courty of Dublin, and knights of the thire elefted for that county. This place was fometimes the feat of government before Dublin caftle was converted to that purpofe; and though now much decayed, it gives title of baron to the family of Wenman. An ancient priory was founded hers, and a houfe for knights hofpitaler; of St John of Jerufalem.

KILVAALLOCK, a town of Ireland, in the county of Limerick and province of Munkler, 16 miles from the city of Limerick, and 107 from Dublin.-This town makcs a confpicuous figure in the military hiltory of Ireland. In the $16: \mathrm{h}$ century it was a populous place; and the remains of the wall which entirely furrounded the to:vn, and of feveral large houfes, are fill to be feen. Edward VI. granted a charter to it with maty privileges, as did Queen Elizaheth another, dated ${ }_{2}$ th April 158 . In $159^{8}$, it was invelted by the Irith forces, when the earl of Ormond hattened to its relief, and arrived in time to raife the fiege : here tras alfo fume conteit during the grand revallion in 1641 and 1542 . By m inquifition if Aug. 29 Eliz. it appears that there had been an abbey in Filmallock called Fiacifpague: on which a thone houfe was erected. In the cat'jedral church are the remains of a monument erceted over the Verdon family, one of whom reprefented this tow: in parliament in 1613 . 'Ihs place once gave titte of vifcount to one of the Sarstield family. Sir James Ware informs ue, that an abbey of Dominicans or Black friars was built here in the $13 \mathrm{th}^{\text {th }}$ cen:ury by the fovercign, brethren, and commonalty. Fr in the many ruins herc of calles and ancient buildinge, it has acquired the name of the Irifb Balbeck.

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The parilh church was formetly an abbey for reanlar canons founded by Si Mrochoallog, whin died between the years 639 and 656 ; and lome writers fay, that the Dominican abbey jult mentioned was frunded in 1291, by Gilbert the fecond fon of Jolin of Callcen.

KlLMARNOCK, a populous and hourihing town of Ayrihire in Scotland, noted for its manufacture of carpets, milled hofiery, and Scotch bonnets. It цave the title of earl to the nohle family of Boyd, refiding in this neighbourhood. This title was forteited by the lalt earl, who, by cngaging in the rebellion of 1745 , was deprived of his humours, and loft his life on the fcaffold. His fon, however, who ferved in the king's army, afterwards fueceeded to the earldom of Errol. The population in 1792 nearly amounted to 6000 .

FJLMORE, a bilhop's fee in the county of Caran and prowince of Unfer in lreland. It was called in former ages Clunes, or Clunis, i. e. the "fequettered place;" and is fituated near Lounl، Earn. St Fedlimid founded this bilhopric in the fixith century ; it was afterwards removed to an obfcure village called Triburna; where it continued until the year 1454 , when Andrew Macbrady bihop of Triburna erected a church on the fite of that founded by St Fedlimid, to whofe memory it was dedicated, and denominate: Kimore, or "the great church." At prefent there are neither cathedral, chapter, nor canons, belonging to this fee; the fmall parih church contiguous to the epifcopal houfe ferving for the purpofe of a cathedral.

KILN, a fore ufed in the manufacture of varions articles. A fabric formed for admitting leat, in order to dry or burn materials placed in it to u*derg', fuch operations.

KlLWORTH, a tnwn of Ireland, fituated in the county of Cork and province of MLunfter, 108 miles from Dublin. It is a thriving place, with a gool church, at the foot of a large ridge of mountains called Kilzoorth mountains, through which a good turnpikrotd is carricd from Dublin to Cork: below the town runs the river Funcheon, which is we!l fored with lilmon and trout, and difchareses itfelf a mile foutl of this into the Blackwater. Near Kiiworth is a good glebe and vicarage houfc. At this place is TVoorpark, the fuperb leat of Lord inlountcalhel; and adjoining to his lordhip's improvemeats flands the calle of Clough-leagh, boldly fituated on the river Funcheon, which has food feveral fieges.

KIMBOLTON, a town of Huntingdonhire, feated in a bottom; and noted for the cafte of Kimbolton, the feat of the duke of Manchefter. W. Long. ©. 15. N. Lat. 52,18 .

KIMCHI, DAvid, a Jewih rabbi, famous as a commentator on the Old 'Tellament, lived at the clofe of the 12 th and beginning of the $13^{\text {th }}$ centuries. He was a Spaniard hy birth. fon of Rabbi Jofeph Kimchi, and brother of Rabbi Nofes Kimchi, both men of eminent learning among the Jews: but he cxcceded them bath, being the belt Hebrew grammarian the lews ever bad. IIe wrote a Grammar and Dictionary of that Janguage; out of the former of which Buxtorf made his Thefaurus linguce Hebrec, and kis Lexicon Livgua Hebrece out of the latter. His writings have been held in Cuch cftimation among the Jews, that no one can
arrive

## K I N

Kiccardice, arrive at any reputation in letters and thoology without Kircar- fudying them.

KINCARDINE, a tom in Pethfifire, firusted upon the banks of the lorth, four miles ne't from Alloa, and 22 fouth from Perth. 'The houfes are well built, and the fiects regular, with a ciry and inealthy fi:uation. The harbour is commodious, with an excellent scadRead oppofite to the town, where 100 vefiels of all dimenfions may ride in perfeet fafety. Shipbuilding is extenfively carried on at this place, and nine or ten have fometimes been upon the flocks at once, fome of them 200 and 300 tons burden. I 11792 there were 75 velfels belonging to the tu:n, fuatihing employment for 300 failors. Thefe import wood, iron, thax, \&ec. from the Baltic, barley fiom England and other places; and export coals to different parts of Europe. It contains at prefent about 1000 inhatitants.
kincardineshire, or Mearnsshirf, a county of Scotland, bourded on the north by Aberdeenfhire, on the ealt by the German ocean, and on the fouth-well by Angus or Forfarthire. In form it refembles a harp, laving the lower point towards the fouth. Its length alongt the coalt is about 30 iniles; its greatelt breadth about 20. Various opinions have been beld concerning the derivation of the word Mearnr; but the other name is taken from its ancient capital, Kincardine, now an inconfiderable village. The trat of country through which the Dee paffes, and the $\mathrm{p}^{\text {lain }}$ along the fea coaft, are well cultivated, and produce much corn and thax. The fields are in many places ikreened by woods; and the lieaths afford theep-walks and much good parture for cattle: But the moft extenfive trat under cultivation, is what is called the how or hollow of the Mearns. 'This tract forms part of Strathmore, or the great vale which runs from Stonehaven in the north-eaft to Argylenlise in the fouth-weft, nearly acrofs the kingdom. Near Stonehayen, to the forth, are the ruins of Dunnotar cafle, the ancient ieat of the earls marifchal of Scotland, fituated on a high perpendicular rock, alinolt furrounded by the fea. In this neighbourhood is a precipitous cliff overhanging the fea, called Fowls Clengh; noted as the refurt of kittiwakes, the young of which are much fought after in the hatching feafon, being efieemed a great delicacy.-At a little diftance from Stonebaven, up the river, itands Urie, the birth-place of Darelay the famous apologif for the Quakers. The Quakers have here a burying ground; and in the vicinity are feen the traces of a Roman itation. There are other fine manfion houfes in this county, as Burn, the feat of the late Lord Adam Gordon; Airbuhnot, the feat of Vifcount Arbuthnot ; Criggie, Benholm Cafle, \&\&.--The village of Fordun, a little fouth from the centre of the county, is fuppofed to be the birth-place of the celebrated author of the Scotichronicon. In the churchyard of Fordun is flewn what is faid to be the tomb of St Palladius, a fmall plain building, which from its appearance is comparatively of modern date. Near the village, and along the river Bervie, the country is flat and well cultivated. The fmall town of Inverrervie was made a royal borough by David Bruce, who land-ed-with his queen at Craig David near this after his long retreat into France. Near the village of Fettercairn are flill feen fome vefliges of a cafte faid to have bean the refilence of Finelia, daughter of a nobleman
of large pofieflions in this country, or, as Major calls her, counefs of Angus, who was acceffary to the murder of Kenneth II. About two miles front this place, on the road fide, is a caira of in llupendous fize and uncommon form, which probably raight give name to the parith. Abont fix miles wefl from Ecrvie, is fituated Laurencekirk, which, formerly an infignificant village, by the judicious and lijeral exertions of Lord Gardentone, has become a handfome little town, with a right to elect magifrates, and to hold an annual fair and a weckly market. He eftablihed here manufactures of lawn, cambric, linen, and various cthef articles. He has alfo freely renounced all the oppreffive fervices due by his tenants; fervices which have been fo long and fo jutly complained of as a check to agriculture in many parts of Scotland. - The northweft part of the fhire, being mountainots, is more employed in pafture than in cuitivation. The principal mountains are Montbattock, and Clocly-na-bean: the former is the tighef in the county; the latter is remarkable, as the name imports, for a huge detached rock near its fummit. The population of this county, according to its parifies, is the following.

KINDRED, in Law, ferfons rclated to one another, whereof the law reckons three degrees or lines, viz. the defcending, afcending, and collateral line. See Consanguinity and Descent.
On there being no kindred in the defcending live, the inheritance paffes in the collateral one. KING, a monarch or potentate who rulcs fingly and
fovereignly over a people.-Camden derives the word KING, a monarch or potentate who rulcs fingly and
fovereignly over a people.-Camden derives the word from the Saxon cyning, which fignifies the fame; and that from can, "power," or ken, " knowledge," where that from can, power, or ken, knowledge," where.
with every monarch is fupfofed to be invelled. The Latin rex, the Scythian reix, the Punic refch, the Spanifh rey, and French roy, come all, according to Poftel, from the Hebrew wкт, rofch, "chief, head." Kings were not known amongt the Ifraclites till

| Parijics. | Population in 1755 | Population in $1795-1709 .$ |
| :---: | :---: | :---: |
| 1 Arbuthnot | 997 | 1011 |
| Banchory Devenich | 1495 | 1700 |
| Banchory Ternan | 1735 | 1245 |
| Benholm | 1367 | 1557 |
| 5 Bervie | 655 | 1200 |
| Conveth | 757 | 1200 |
| Dunnotar | 1570 | 1962 |
| Durris | \$87 | 6,5 |
| Fettercairn | 1950 | 2000 |
| 10 Fettereffoe | 3082 | 3370 |
| Fordun | 1890 | 2258 |
| Garvock | 755 | 460 |
| Glenbervie | 958 | 1307 |
| Kinneff | 858 | 1000 |
| 15 Maryculter | 746 | 719 |
| Marykirh | 1285 | 1481 |
| Nigg | 1289 | 1090 |
| St Cyrus | 1271 | 1763 |
| 19 Strachan | $79^{6}$ | 700 |
|  | 24.346 | $\begin{aligned} & 26,799 \\ & 24,346 \end{aligned}$ |
| FINDRED in | Increa | e, $2453^{*}$ |

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the reign of Saul. Before him they were governed at firft by elders as in L.gypt ; then by princes of God's appointment, as Mofes and Johua; then by judges till the time of Samuel ; and laft of all by hings. See Judges.

Moft of the Grecian flates were governed at firf by kings, who were cholen by the people to decide differences and execute a power which was limited by laws. They commanded ammes, prefided over the worlhip of the gods, Evc. This royalty was generally hereditary; but if the vices of the heir to the crown were odious to the people, or if the oracle had fo commanded, he was cet off from the right of fucceftion; yet the kings were fuppofed to hold their fovereignty by the appointment of Jupiter. The enfign of majefty was the fceptre, which was made of wood adonned with fluds of gold, and ornamented at the top with fome figure ; commonly that of an eagle, as being the bird of Jove.

Rome alfo was governed at firft by kings, who were elected by the people, with the approbation of the fenate and concurrence of the augurs. Their power extended to religion, the revenues, the army, and the adminiftration of jultice. The monarchical form of governrnent fubfifted 244 years in Rome, under feven lings, the laft of whom was Tarquinius Superbus. See Rome.

Among the Greeks the king of Perfia had anciently the appellation of the great king; the king of France now has that of the mofl Chriftian king; and the king of Spain has that of Catholic king. The king of the Momans is a prince chofen by the emperor, as a coadjutor in the governmest of the empire.

The kings of England, by the Lateran council, under Pope Julius II. had the title of Chrifitianifimus conferred on them; and that of defertier of the faith was added by Pope Leo X. though it had been ufed by them fome time' before. 'The title of grece was firlt given to our kings about the time of Henry IV. and that of mojefly firit to Henry VIII. before whicls time our kings were called grace, highmefs, \&c.-In all public iuftruments and letters, the king fiyles himfelf nos, "we;" though till the time of King John he fooke in the fingular number.

The defmition of king above given, is according to the general acceptation of the tem. It will not therefore flrictly apply to the fovereign of Britain; and ftill lefs of late to that of France, formerly one of the moft abfolute, now the moft degraded, of princes, without power afd without confequence. In Britain, a happy mean prevails. The power of the king is indeed fubject to great linitations: But they are the limitations of uifdom, and the fources of dignity; being fo far from diminifuing his honour, that they add a glory to his crown: For while other kings are abfolute mowarchs verer innumerable multitudes of flaves. the king of Britain las the ditinguithed glory of foierning a free people, the leaft of whom is protected by the laws: he has great prerogatives, and a bourdefs power in doing good; and is at the fame time only reftrained from acting inconfilently with his oin happinefs, and that of his people.

To underRard the royal rights and authority in Pritain, we muft confider the ling under fix dillinet views. 1. Wiah regard to his titte. 2. His royal fanily.
3. His councils: 4. His duties. 5. His prerogative. King. 6. His revenue.

1. Histitle. For this, fee Hersditary Right, and Successron.

1I. His roval family. See Roral Family.
111. His councils. See Council.

1V. His duties. By our conflitution, there are cer. tain duties incumbent on the king ; in confideration of which, his dignity and prerogative are eftablifhed by the laws of the land: it being a maxim in the law, that protection and fubjection are reciprucal. And thefe ree ciprocal duties are what Sir William Blackfone apprehends were meant by the convention in 1689 , when they declared that King James had broken the original contrad between king and people. But however, as the terms of that original contract were in fome meafure difputed, being alleged to exift principally in theo. ry, and to be only deducible by reafon and the rules of natural law, in which deduction different underftandings might very confiderably difter; it was, after the Revolution, judged proper to declate thefe duties exprefsly, and to reduce that contract to a plain certainty. So that, whatever doubts might be formerly raifed by weak and crupulous minds about the exiltence of fuch an original contract, they muft now entirely ceafe; efpecially with regard to every prince who bath reigned fince the year 1688 .

The principal duty of the king is, To govern his people according to law. A'ec regibus irfiniza aut libere potefors, was the conflitution of our German anceltors en the continent. And this is not only confonant to the principles of nature, of liberty, of reafon, and uf fociety; but has always been efleemed an exprefs part of the common law of England, even when prerogative was at the higheft. "The king (faith Bracton, who wrote under Henry III.) ought not to be fubject to man ; but to God, and to the law: for the law maketh the king. Let the king therefore render to the law, what the law has invefted ia him with regard to others; cominion, and power : for he is not truly king, where will and pleafure rules, and not the law:" And açain: "The king hath a fupcior, namely God; and alo the law, by which he was made a king." Thus Brazton; and Iortefcue alfo, having firf well diltinguithed between a monarchy abfolutely and defpotically regal, which is introduced by conqueft and violence, and a political or cisil monarchy, which arifes from mutual coarent (of which lat fpecies he afferts the government of England to be), immediately lay it dowis as a principle, that "the king of England mu't rule lais peoplcaccording to the decrees of the laws thercof; infomuch that he is bound by an oath at his coronation to the obfervance and keeping of his own laws." But to obviate all doubts and dificulties coneerning this matter, it is expeefs!y declared by flatute 12 and 13 KW. I1I. c. : " that the laws of Eng'and are the birthright of the people thereo! $;$ and all the kings and queens who Thall afcend the throne of this realm ouglat to adnaniner the govermment of the fame according to the faid laws, and all their ofices and minit?ers ought to ferve them refpectively according to the fame: and therefore all the other laws and fotutes of this realm, for fecuring the effahlifhed religion, and the righis and liberties of the neonle thereof, and all other laws and fatutes of the fame now in force, are hy his majent, by and with

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King. the advice and confent of the lords [piritual and temporal, and commons, and by abibority of the fame, ratified and confirmed accordingly."

And as to the terms of the original contract between king and people, thefe, it is apprehended, are now couched in the coronation oath, which by the ltatute I IV. and M. Atat. I. c. 6. is to be adminitered to every king and queen who flall lucceed to the imperial crown of thefe realms, by one of the archbihops or bilhops of the realm, in the pre?ence of all the peuple; who on their parts do reciprocally take the oath of allegiance to the crown. This coronation oath is conceived in the following terms:
"The archbighop or bighop frall fay, Vill you folemnly promife and fwear to govern the people of this hingdom of Britain, and the dominions thereto belonging, according to the flatutes in parliament agreed, and the laxs and cuftoms of the fame? The king or oucen fiball fay, I folemnly promile fo to do.
"Archbifbop or bifbo,". Will you to your power caufe lav and juftice, in mercy, io be executed in all your judgements?-King or auen. I will.
"Archbijbop or bi/hop. Will you to the utmoâ of your power maintain the laws of God, the rue profef. dion of the gofpel, and the Protenant reformed religion eltablined by the law? And will you preferve unto the bihops and clergy of this realm, and to the churchcs comnitted to their charge, all fuch rights and privileges as by law do or thall appertain unto them, or any of them ? - King or qucen. All this I promife to do.
"Afier this the king or quecn, laying his or her hand upon the lioly gofpel, fhall fay, The things which I have here before promiled, I wiil perform an:d keep : fohelp me God. And then foall kifs the book."

This is the form of the coronation oath, as it is now prefcribed by our law; the principal articles of which appear to be at leaft as ancient as the Mirror of Julkices, and even as the time of Bracton: but the wording of it was changed at the Revolution, becaufe (as the tlatute alleges) the oath itfelf had been francd in douktful words and exprefions, with relation to ancient laws and conflitutions at this time unknown. However, in what form foever it be conceived, this is molt indifputably a fundamental and original exprefs contract; though, doubtiefs, the duty of protection is impliedly as much incumbent on the fovereign before coronation as after: in the fame manmer as allegiance to the king becomes the duty of the fubject immediately on the defcent of the crown, before he has taken the oath of allegiance, or whether he ever takes it at all. This reciprocal duty of the fubject will be confidered in its proper place. At prefent we are only to obferve, that in the king's part of this original contract are expreffed all the duties which a monarch can owe to his people, viz. to govern according to lan; to execute udgement in mercs; and to maintain the eftablifhed religion. And with refpect to the latter of thefe three l, ranches, we may farther remark, that by the aft of union, 5 Ant. c. 8. two preceding hatutes are recited anel confirmed; the one of the parliament of Scotland, the other of the parliament of England: which chact; the formur, that every king at his acceflion thall take aud fubferibe an oath, to preforve the Protcllant selin
gion, and Presuyterian church-government in Sco:iand; the latter, that at his corontion he thall take and fubreribe a fimilar oath, to preferve the fettlement of the church of Eogland within England, Iieland, Walcs, and Berwick, and the territories thereunto belonging.

## 5. His prerogative. See Prerogative.

VI. His revenue. Sce Revenui.

Havils in the preceding articles chalked out all the principal outlines of this satt title of the law, the fupreme executive maginnate ${ }_{n}$ or the king's majelly, confidered in his feveral capacities and points of view; it may not be improper to take a hort comparative revicis of the power of the executive magillrate, or prerogative of the crown, as it ftood in former days, and as it ftands at prefent. And we cannot but obferve, that molt of the laws for afcertaining, limiting, and reflraining this prerogative, have been made within the compars of lithle more than a century paft; from the petition of right in 3 Car. I. to the prefent time. So that the powers of the crown are now to all appearance gieatly curtailed and diminilied fince the eign of Fing James I. particularly by the abulition of the itarchamber and high-commiffion counts in the reign of Charles $I$. and by the difclaining of matial law, and the power of levying taxes on the fuhject, by the fame prince: by the difufe of foren laws for a century patt : and by the many excellent provilions enacted under Charlcs II.; efpecialiy the abolition of military tenures, purveyance, and pre-cmption; the liabeas corpas aet; and the af to prevent thie difcontinuance of parliaments fur above three years; and fince the Revolution, by the ftrong and emphatical words in which our libertics are aflerted in the bill of rights, and act of fettiement; by the act for triemial, fince turned into lepternial elections; by the exclufion of certain oificers from the houle of commons; by rendering the feats of the judges permanent, and their falaries independent; and by reifraining the king's pardon from obfructing parliamentasy impeachnents. Befides all this, if we confider how the crown is impoverifhed and ftripped of all its ancient revenues, lo that it greatly depends on the liberality of parliament for its neceflary fupport and maintenance, we may perhaps be led to think that the balance is inclited protty ftrongly to the popular feale, and that the executive magiftrate has neither independence nor power enough left, to form that check upon the lords and commons which the fonnders of our conflitution intended.

But, on the other hand, it is to be confidered, that every prince, in the fift parliament after his acceffion, has by long ufage a truly royal addition to his hereditary revenue fettled upori him for his life; and has never any occafion to apply to pariament for fupplics, but upon fome public necelnity of the whole realn. This reftores to him that conltitutional independence, which at his firf acceflion feems, it mult be owned, to be wanting. And then with regurd to power, we may find perhaps that the hands of government are at leaft fufficiently ftrengthened $y$ and that a Britilh monarch is now in no danger of being overborne by either the nobility or the peoplc. 'I he inftruments of power are not perhaps fo open and arowed as they formerly were, and thercfore are the lefs liable to jualous ant invidious reflegtions; but they are not the weaker

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upon that account. In fhoot, our nativaai debt and taves (befides the inco:sveniences before mentioned) have alio in their natural confequences thrown fuch a weight of power into the executive fcale of government, as we cannot think was intended by our patriut anceftors; who glorioufly diruggled for the abolitivil of the then formidable parts of the prerogative, and by an unaccouncable want of forefight eftablilled this fyltem in their ftead. The entire collection ald managemert of fo vaft a revenue, being placed in the hands of the crown, have given rife to fuch a number of new officers, created bs and remuvable at the royal $\mu^{1}$ 'eafure, that they have exterded the intueace of government to every corner of the nation. Witnels the commifioners, and the multitude of dependents on the culons, in every port of the hingdons; the commifioners of excife, and their numerous fubatierns, in every inland diftrict ; the poffmafters and their fervents, planted in every town, and upon every public road; the commilioners of the flamps, and their diftributors, which are fully as fcattered and fully as numerous; the oificers of the Salt duty, which, though a fipecies of excife, and conducted in the fame marner, are yet made a dillinct corps from the ordinary managers of that revenue; the furveyors of houfes and windows; the receivers of the land tax ; the namagers of lutteries; and the commiffioners of hackney coaches; all which are tither mediately or immediately appointed by the crown, and removable at pleafure without any reafon affigned : thefe, it requires but little peneration to fee, mult give that parer, on which they depend for fubfillence, an influence moft amazingly extenive. To this may be added the frequent opportunitids of conferring particular obligations, by preference in loans, fubfcriptions, lickets, remittances, and other money tranfacticns, which will greatly increafe this influence; and that over thofe perfons whofe attachment, on account of thei: wealth, is frequently the moft defirable. All this is the natural, though perhap: the unforefen, confequence of ereaing our funds of credit, and, to fupport them, eftablifhing our perpetual taxes: the whole of which is cratirely new ince the Refloration in 1660 ; and by far the greateft part fiace the Revolution in 1683. And the fame may be faid with regard to the officers in oar numerous atmy, and the places which the army has create?. All which put together give the executive power fo perfuafive an energy with refpect to the perfons thennfelves, and fo prevailing an intereft with their fricnds and faniiies, as will amply make amends for the !of, of extertal prerogative.

But though this profution of ofices fhould have no effect on individuals, there is atill another riewly acquired bratch of power; and that is, not the intheence oniy, but the force of a dilciplined army: paid indeed ultimateis by the peopie, but im nediately by the crown; raifed by the cuws, oficered by the crown, commanded by the crown. They are kept on foot, it is true, onlly frona year to year, and that by the power u" parlianent: but during that year they mult, Sy the natare of ouz contitution, if railed at all, be at the ablolute difpofal of the crown. And there need bet few words to demonfrate how great a truft is therel,y repoled in the prince by his people: A truft that is more slaa cquivalen: to a thoufand little troublefome j"crogatives.

Add to all this, that bendes the ciril liif, the i:n King. menfe revenue of almoff feven mill:ons ferling, which is amnually paid to the creditors of the public, or carried to the finking fund, is firf depofited in the royal exchequer, and thence ifued out to the refpective offices of payment. This revenue the people can never refufe to raife, becaufe it is made perpetual by att of parliament; which alfo, when wcll co:ifilered, will appear to be a truft of greai delicacy and high importince.

Upon the whole, therefore, it feems clear, that whatever nay have become of the nominal, the real power of the crown has nut been too far weal:ened by any tranfations in the laft century. Much is indeed givenup; but much is aino acquired. The flern commands of prerogative have yielded, to the milder voice of influence: the flavifh and exploded doctrine of nonsefiftance has given way to a military eitablifhment by law; and to the difufe of parliamento has fucceeded a parliamentary trult of an immenfe perpotual revenue. Whes, indeed, by the free operation of the linking fund, our nationsl deots thall be leffened; when the poture of foreign affairs, and the univerfal introduction of a well planned and national militia, vill fufer our formidable arnay to be thimed and regu!ated; and when (in confequence of all) our taxes thall be gradnally reduced; this adventitious power of the cromn wiil fowly and imperceptibly diminih, as it flwly and imperceptilily rofe. But till that hall happen, it will be our efpecial duty, as good fubjects and good Englithmen, to reverence the ciows, and yet guard againt corrupt and fervile intuences from thofe who are intrufled with its authority; to be loyal, yet free; obedient, and yet independent ; and above every thing, to hope that we may long, very long, contiaue to be governed by a fovereikn, who, in all thofe public acts that have perfonally proceeded from himfelf, hath saamifelted the higheft veneration for the free conftitution of Britain; hath already in more than one imtance remarkably ilrengthened its outworks; and will therefore never liarbour a thought, or adopt a perfunion, in any the remotef degree derrimental to public liberty.
Ḱt::G at Arms, or of Arms, is an officer of great antiquity, and anciently of great authority, whofe bufinefs is to direct the beralds, prefide at their chapters, and have the jurifdiction of armoury:
In England there are three kings of arms, viz. garter, clarencicur, and norroy.
Garter, principal King of Arins, was inilituted by Henry V. His bufinefs is to attend the knights of the garter at their affemblies, to mar.hal the folemaities at the sunerals of the higholt nobility, and to carry the garter to kings and princes beyund the fea; ournich. occafion be ufed to be joined in commition with fume principal pece of the kingdom. See Garter.
Clarencicux King at Aims, is fo callad foom the duke of Clarence, to whom he frit belonged. His olfice is to marthal and difpofe the funcrals of all the inferior nobility, as bazonets, knights, efquires, and gentlemen, on the fouth fide of the Trent. See Clapescimex.
Norray Ki:ig al Arons, is to do the fume on the north fise of the river Trent.
ihefe tiro lat ate alio cailed provincial heralds, in

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regard they divide the kingdom betereert them into provinces. By charter, they have porser to cimat noblemen's families, to fet down their pedigress, diftinguith their arms, appoint perfons their arms, and with garter to divet the othe: heraids.

Ancient!y the kings at amms were created and fulemmly crowned by the kings of England themfelwes; but in later times the earl marhal !has a fpecial conumiffion at every creation to perfonate the king.

Lyon Kit:G at Arms, for Soothad, is the fecond king at anms for Great Britain ; he is invelted and crowned with grcat flenmity. To him belong the pablifting hing's proclamations, mathalling funerals, revering arms, \&x. See Lion.

Kisco, Dr Yohn, a learaed Englih tillop in tic It th century, was educated at TVeitmminter lchool, and at Oxford, and was appointed chaplain to Queen Elizabeth. In 1605 he was made dean of Chriit church, was for feveral years vice-ehancellor of Oxford, and in 1611 he was adpanced to the bilhonric of London. Befides his Lecturcs $u_{j}$ on Yoonah, delivereal at York, be publihhed feveral fermons. King James I. ufed to fyle him the king of preachers; and Lood Chief Juntice Coke often declared, that he wes the beff fpenker in the Starchamber ial his time. He was fo condant in preashing after le was a bilhop, that, u:lefs he was prevented by want of health, he omitted no Sunday in vinting fome pulpit in or near Londor. Soon after his death, it was reported, that he died a member of the Romih clurch. But the fality of this R.ory was fuficiently expofed by his fon Di Henry Kin?, who was bifhop of Chicheller, in a fermon, at S: Paul's crofs foon after; by Bilhop Godwin in the Apperdix to his Commentarius de prafuiibus Anglix, printed in 1622; and by Mr John Gec, in his book, entited, The Fort out of the Snare.

King, Dr Ifilliarn, a facetious Englith writer in the beginning of the 18 th century, was allied to the noble families of Clarendon and Rochefler. He was clected a Gudent of Chrit church from Theftuinher fchool in 168:, aged 18. He afterward entered upon the fudy of law, and took the degree of doctor of civil law, foon acquired a confiderable reputation as a civilian, and was in great practice. He attended the earl of Pembroke, lord lieutenant of Ireland, into that Eingdom, where he was appointed judge advocate, fole comnilitione: of the prizes, keeper of the records, vicar general to the lord primate of Ireland; was countemanced by perfons of the higheft rank, and might have made a forture. Eut fo far was he from heaping up richec, that he returned to England with no other treafure than a few merry poems and humorous effays, and returned to his ftudent's place at Chriit church. He cied on Chrillmas day in 1712, and was interred in the cloillers of Weftminfter abbey. His writings are pretty numerous. The principal are, 1. Animadver. fions on a pretended Account of Denmark, wrote by Mr RIo!efworth, afterwards Lord Molefworth. The writing of thefe procured Dr King the place of fecretary to Piincefs Anne of Denmaik. 2. Dialogues of the dead. 3 . The art of love, in imitation of Ovid De arte amandi. 4. A volume of poems. 5. Uleful tranfactions. 6. An hillorical account of the heathen gods and heroes, 7. Several tranflations.

Krsg, Dr William, archbifhop of Dublin in the fath century, was defcended from an ancient family in
the north of Scotland, bat born in the county of Ant:iis in the north of Ireland. In 1674 he took priefs orders, and in 1679 was promoted by his pai:on, Dr Parker, archbillop of Dublin, to the chancellor Mip of St Patrich. In 1687 Pcter Manby, dean of Londonterry, having pabliihed at London, in 4 to, a pamphlet entitled Confiderations which obliged Peter Manby dean of Londonderry to embrace the Catholic Religion, our author inmediatcly wrote an anfiwer. Mr Manby, eneouraged by the court, and affifted by the molt learned champions of the churcb of Rome, publithed a repiy under this title, A reformed Catechifm, in two Dialogues, concerning the Englilh Refornation, \&zc. in reply to Mr King's Anfiver, \&cc. Our author Coon rejoined, in A Vindication of the Anfwer. Mr Manby dropped the controverfy; luut difperfed a loofe fheet of paper, arffully written, with this title, A Letter to a Friend, thowing the Vanity of this Opinion, that every Man's Senfe and Reafon are to guide him in Matters of Faith. This Dr King refuted in A Vindication of the Chriftian Keligion and Reformation again!t the Attempts of a Letter, \&ic. In 1689 he wastwice confined in the tower by order of Kiug James 11. and the fame year commenced doctor of divinity. In 1690 , upon King James's retreat to France after the battle at the Boyne, he was advanced to the fec of Derry. In 1692 he publithed at London in 4 to, The State of the Proteftants of Ireland under the late King James's Goverument, \&c. "A hiltory (fays Bill.op Burnet), as truly as it is finsly written." He had by him at his death attelled rouchers of every particular fact alledged in this book, which are now in the hands of his relations. However, it was foon attacked by Mr Charles Lefly. In 1693 our author finding the great number of Prote. Rant difenters, in his diocefe of Derry, increaled by a valt addition of colonifts from Scotland, in order to perfuade them to conformity to the eftablifhed church, publifhed A Diccourfe coneerning the Inventions of Men in the Worlluip of God. Mr Jofeph Boyfe, a diffenting minifler, wrote an anfwer. Tbe bihop anfwered Mr Boyfe. The latter replied. The bilhop rejoined. In 1702 he publifited at Dublin, in 4 to, his celebrated treatife De Origiure Ma/i. Mr Edmund Law, M. A. fellow of Chriil's college in Camidridge afterwards publified a complete tranflation of this, with very valuable rotes, in $4 \neq 0$. In the fecond edition he has inferted, by way of notes, a large collcetion of the author's papers on the fame fubject, which he had receised from his relations after the publication of the former edition. Our author in this excellent treatife has many curious obfervations. He afferts and proves that there is more moral good in the earth than moral evil. A fermon by our author, preached ai Duelin in 1709 , was publifhed under the title of Divine Predeftination and Foreknowledge confiftent with the Freedom of Man's Will. This was attacked by Antlony Collins, Efq. in a pamphlet entitled, A Vindication of the Divine Attributes; in fome remarkson the arch. billop of Dublin's férmon, entitled, Divine Predeflination, \&c. He publifhed likewife, A Difourfe corcerring the Confecration of Churches; thowing what is neant by dedicating them, with the Grounds of that Ofice. He died in 1720 .

Kisg, Dr William, principal of St Mary's hall, Oxford, fon of the reverend Peregrine king, was born

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at Stepney in Middlefex, in the year $168 \%$. He was made doctor of laws in 1715, was fecretary to the čuke of Ormord, and earl of Arran, as chanceilors of the univerfity; and was rade principal of St Mary's liall on the death of Dr Hudfon in igig. When he flood candidate for meniber of parliament for the univerfity, he refigned his office of fecretary, but enjoyed his other preferment, and it was all he did enjoy to the time of his death. Dr Clark, who oppofed him, carried the election; and after this difappointment, be in the year 1727 went over to Iteland, where he is faid to have writen an epic poom, called The Toaff, which was a nolitical fatire, printed and given away to his friends, but never fold. On the dedication of Dr Radclifi's library in 1749 , he fpcke a Latin oration in the thearre of Oxford, which was received with the highef acclamations; but it was otherwife when printed, for the was atiacked in feveral pamplatets on account of it. Agais, at the memorable contefted election in Oxfordtline 1755 , his attachment to the old intereft drew on him the refentment of the new, and t.e was libelled in newfopers and pamphlets, againtt which the defended himfelf in an Apology, and warmly retaliated on his adverfaries. He wrote feveral other things, and died in 1762. He was a polite fcholar, an excellent orator, an elegant and ealy writer, and elteemed by the firt men of his time for his learning and wit.

Kivg, Pifcr, lord high chancellor of Great Britain, was the fon of an eminent grocer and falter, and was torn at Exeter in 1669 , and bred up for fome years to his father's bufinels; but his inclination to learning was fo flrong, that he laid out all the money he could ipre in books, and devoted erery moment of bis leifure hours to ftudy: fo that he became an excellent fcholar before the world fufpected any fuch thing; and gave the public a proof of his kill in church hillory, in his Inquiry into the Conftitution, Difcipline, Unity, and Worflip of the primitive Church, that flourihed within the firlt 300 Years after Chrift. London, 1691, in 8vo. This was written with a view to promote the feheme of a comprehenfion of the diffenters. He afserwards publifhed the fecond part of se Inquiry inio the Conftitution, \&c.; and having defired, in his preface, to be fhown, either publicly or privately, any miftakes he might have made, that requeft was firt complied with by NIr Edmund Elys; between whom and our author the:e pafied feveral letters unon the fubject, in 1692 , which were publithed by Mr E!ys in 1694 , Svo, under the title of Letters on feveral Subjects. But the molt formal and elaborate anfiver to the Inquiry appeared afterwards, in a werk entitled, Orighal Draught of the Primitive Church.

His aquaintance with MrI Locke, to whom he was related, and who left him half nis lioraty at his desth, was of great advan* age to him; by his advice, after he had ludied fome time in Holland, he appllied himfelf to the fudy of the larr ; in which proiefion this learning and diligence made him, foon taken notice of. In the two lat parliaments during the reign of Fing William, and in five parliaments during the reign of Queen Anne, he Cerved as burgefs for Beer-Alfon in Weronthire. In 1702 , he publitied at Liondon, in 8 yo, withnut his nane, his Hiftory of the Apoftles Creed, with critical obfervations on its feveral articles; which
is highly cheemed. In i 708 , he was chofon recorder of the city of London, and in 1710 , was one of the mermbers of the houfe of conmons at the trial of D r Sachevetell. In 1714, he was appointed lord chief juftice of the common pleas; and the April following, was madc one of the privy council. In 17:5, he was created a peer, by the title of Lord King, baron of Ockham, in Surry, and appointed lord high chancellor of Great Britain; in which fituation he continued till 1733, when be refigned; and in 1734 died at Ockharn in Surry.

King's Bench. Sce Revich, King's.
Kivg Bird. See Paradisea, Orvithology If: der.

Kivg's Fibher. See Alcedo, Orvithology Index. Books of KiNGs, two canonical books of the Old Teftament, fo called, becaule they contain the hiftory of the kings of Ifrael and Judah from the beginnings of the reign of Solomon down to the Babylonith caplivity, for the Space of near 600 years. The firt book of Kings contains the latter part of the life of David, and his death; the flourifing fate of the Ifraelites under Solomon, his building and dedicating the temple of Jerufalem, bis thameful defection from the true religion, and the fudden decay of the Jewilh nation after his death, when it was divided into two kingdoms: the reit of the book is taken up in relating the acts of four kirgs of Judah and eight of Ifrael. The fecond book, which is a continuation of the fame hiftory, is a relation of the memorable acts of 16 kings of Judah, and I 2 of Ifrael, and the end of both kingdoms, by the carrying of the 10 tribes captive into Alfyria by Shalmanefer, and the other two into Babylon by Nebuchadnezzar.

It is probable that thefe books were compofed by Ezra, who extracted them out of the public records, which were kept of what paffed in that nation.

KiNG's County, a county of the province of Leinfter in Ireland, taking its name from King Philip of Spain, hufband to Queen Mary. It is bounded on the rorth by Weit INeath ; po the foutl by Tipperary and Queen's county, from which it is divided by the Barrow ; and part of Tipperaty and Galway on the wefl, from which it is feparated by the Shannon. It is a fine fruitful country, containing $25 \%, 510$ Irifu plantation acres, 56 pariflies, 11 baronies, and two boroughs. It is about 38 miles long and 30 broad, and the chief town is Philipftown.

King's-Evil, or Scropliula. Sce Mrdicini Index.
KING-TE-TCFIING, a famous village belonging to the diftrict of Jao-tcheou fou, a city of China, in the province of Kiang-it. This village, in which are collected the bet workmen in porcelain, is as populous as the largelt cities of China. It is reckoned to contain a miilion of intabitants, who coufurae every day more than ten thoufand loads of rice. It extends a league and a balf along the banks of a beautiful river, and is not a collection of fraggling houfes intermixed with fpots of ground: on the contrary, the people complain that the buildings arc too crowded, and that the long fireets which they form are too narrow; thofe who pals through them imagine themfelves tranfported into the midat of a fair, where nothing is heard around but the noife of porters calling out to inake way. Provifions aredear bere, becaufe every thing confumed

## Kigg's

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Kin, tow is breal h: troun remote places; eren wocd, io necelrinifor Kın! fion. fary fur their furmaces, is actually tranfported from the diftance of an hundred leagues. This village, not-
"ithfanding the high price of provifions, is an afy!un for a great number of poor families, who could not fubfift anywhere elfe. Children and insalids find emloyment here, and even the blind gain a livelihood by pounding colours. The river in this place forms a hird of harbour about a league in circimference: two or three rows of barks placed in a line fometimes border the whole extent of this ralt balon.

KINGDON, the territories or extent of country fubject to a king.

Kingeons of Nature. Moft naturaliits following Linnæu, lave divifled all natural bodies into three great claffes, called king doms. Thefe are the mineral, the vegeta!!e, and the animal kingdoms: See Naturaif. History.

KINGHORN, a borough town in the county of Fife in Scotland, on the frith of Forth, direatly oppi fite to Leith. The manufacture of thread trockings has been long eftablined; and machinery has been introduced for fpinning cotton and flax. Nany of the neid are employed in coafing hips, in the filhery, or the paflage boats from honce to Leith, from which the town of Kinghoun derives confiderable advantage. This place gives a fecond title to the eanl of Sirathmore. The population in 1793 was 1118.

KiNGSBRIDGE, a town of Deronfhire, 217 miles welt-fouih-weft from London, which has a harbour for boate, and it is a chapel of eale to Chellon, and has a bridge over the Salcomb to Dodbrook.

KINGSCLERE, a town of Hamplire, and on the Oxford road from Bafingtoke, is 56 miles from London, and was once the leat of the Saxon kings.

KINGSFERRY, in Kent, the common way from the main land into the ifle of Sheppey; where a cable of about 140 fathoms in length, fallened at each end acrols the water, ferves to get the boat over by hand. For the maintenance of this ferry and keeping up the highway leading to it through the marfles for above one mile in length, and for fupporting a wall againft the fea, the land occupiers tax themfelves ycarly one penny per acre for frefin marila land, and one penny for every 10 acres of falt marlh land. Here is a houle for the ferry keeper, who is obliged to tow all travellers weve free, except on thefe four dayc, viz. Palm Monday, Whit-Monday, St James's day, and Michaelmas day, when a horfeman pays two pence and a footman one penny. But on Sunday, or after eight o'clock at night, the ferry-kecper demands fixpence of every homfeman, and twopence of every footman, whether firangers or the land occupiers.

KINGSTON upon Thanes, a town of Sury in England, fituated 13 miles from London. It takes its name from having been the refidence of many of our Saxon kings, fome of whom were crowned here on a flage in the market place. It has a wooden bridge of 20 arches over the Thames, which is navigable here by barges. There is another bridge here of brick, over a ftream that comes from a fpring in a cellar feur miles above the town, and forms fuch a brook as to drive two mills not abnve a bowfhot from it and from each other. It is generally the place for the fummer aflizes of this county, there beiag a gallows on the
top of the hill chat overlooks it. It is a populous, trading, "ell-buitt town, and in the reigrs of hing Edward II. and Ill. fent members to parliament. It has a free fchool; an aims houfe tuilt ia 1072 , for lix men and lix women, and endowed with lands to the value of S-1. a-year: and a charity fchool for 30 boys, who are all cloihed. Fere is a fpacint, church whh eight bells, adjoining to which, on the north tide was formerly a chapel dedicated to St Mary, in which were the pictures of three of the Sixon kings that were crowned here, and alfo that of King John, who gave the inhabitants of this town their fuit chater of iacorporation. But thefe were all deftroycd by the fall of this chapel in 1732 . Here is a gond market for corm,

Kingston upon Hull, a town in the calt riding of Yorklure, 173 miles from London. Its common uame is fimply Hull, and it is fituated at the corfiux of the rivers Hull and Humber, atd near the place where the latter opens into the German ocean. It lies fo low, that by cutting the banks of the Humber thee country may be laid under water for five miles round. Towards the land it is defended by a wall and a ditih, with the farther fortification of a caftle, a citadel, and blockhoure. Eull has convenient docks for the laipping that frequent this port. The firf dock was completed fome years ago. The town is large and populous, containing two churches, fevcral meeting houfes, a free fchool, a.charity fchool, and fome hofpitals. Among the latter is one callicd Trinity houfe, in which are maintained many diftreffed feamen, both of Hull and other places, that are members of its port. It is governed by Iz elder brethren and fix affiltants; out of the former are chofen annually two wardens, and out of the younger brethren two ftenards ; they determine queftions between malters and feamen, and otler fea matters. A handfome infirmasy has lately been ereched without the town to the nortl. Here are alfo an exchange and a cuftomhoufe, and over the Hull a wooden draw-bridge. A good harbour was made here by Richard II. This town has not only the moft confiderable inland traffic of any port in the north of England, but a foreign trade fuperior to any in the kirgdom, excepting the ports of London, Briftol, Liverpool, and Yarmouth. By means of the many large rivers that fall into the Humber, it trads to almoft every part of Yorkthire, as well as to Limcolnthire, Nottinghanihire, Staffordhire, Derbyfhire, and Chethire: the commodities of which counties are brought hither, and exported to Holland, Hamburgh, Frasce, Spain, the Baltic, and other parts of Europe. In return for thofe, are imported iron, copper, hemp, flax, canvas, Ruflia linen and yarn, belides wine, oil, fruit, and other articles. Such quantities of corm are alfo brought hither by the navigable rivers, that Hull exports more of this commodity than London. The trade of Hull with London, particularly for com, lead, and butter, and with Holland and France, in tines of Feace, for thofe commodities, as well as for cloth, kerfeys, and otber manufactures of Youkfhre, is very confiderable. In 803 the number of fhips belonging to $\mathrm{H} t: 1]$, employed in the Greenland and Davis's Itraits whaie fimery, amounted to 40. The mayor of Hull bas two fwords, one given by King Richard II. the other by Henry VIII. but only one is borne betore him at a time; alfo a cap of maintenance, and an oar of lignum

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vitte as a badge of his admiralty jurifdiction within the limits of the Humber. This town gave title of earl to Robert Pierpont of Holme Pierpont, Vifcount Newark, created in the $4^{\text {th }}$ of Charles 1. and afterwards that of duke in the fame family. The laft duke of King fon died in 1773, and the title became extinct.

Kingstos, a town of Ireland, in the province of Leinfter, and capital of King's county. W. Long. 7 . 20. N. Lat. 53.15. It is otherwife called PhilipsTown.

Kingstos, a town of Jamaica, feated on the north fide of the bay of Port Royal. It was founded in the year 1693 , when the repeated defolations by earthquake and fire had driven the inhabitants from Port Royal. It extends a mile from north to fouth, and about as much from ealt to wef, on the harbour. It contains about 3000 houfes, befides negro houfes, and warehoufes. The number of white inhabitants in 1788 was about 7000 ; of free people of colour 3000 ; and of flaves, about 16,000 . It is the county town, where the affizes are held, in January, April, July, and October, and lalt about a fortnight. It is a place of great trade. W. Long. 76. 52. N. Lat. : 7. 50.

KINGTON, or Kysetos, a pretty large town in Herefordhire, 146 miles from London. It is fituated on the river Arrow, and is inhabited chielly by clothiers, who drive a confiderable trade in narrow cloth. It has a confiderable market for corn, cattle, leather, home made linen and woollen cloth, and all forts of provifions.

Kinnor, or Chinyor. See Chinyor.
KinO, a gum refin. See Materia Medica Index.

KINROSS, the county town of Kinrofsthire in Scotland, fituated in W. Long. 3. 7. N. Lat. 56. 15 . on the weff fide of Lochleven, a freth water lake about 10 miles in compafs, abounding with pike, trout, perch, and water fowl. The manufactures are linen and fome cutlery ware. The houfe of Kinrofs, an elegant ancient ftructure, flands on the north fide of the town. Kinrofs fends a member to parliament by turns with Clackmannan. In the lake are two iflands; on one of which appear the ruins of a priory, heretofore poffeffed by the Culdees; the other is famous for the cafte in which Queen Mary was imprifoned by her rebellious fubjects.

The following is the population of this county according to its parifhes *.

| Parigues. | Population in 1755. | Population in ${ }^{179 c}-179^{8}$ |
| :---: | :---: | :---: |
| Cleifh | 692 | 653 |
| Kinrofs | 1310 | 1839 |
| Orwell | 1891 | 1705 |
| Portmoak | 969 | 1105 |
| , | 4889 | $\begin{aligned} & 5302 \\ & 4889 \end{aligned}$ |
|  | Incre | 413 |

KINSALE, a town of the county of Cork in Ire3and. lituated at the mouth of the river Ban or Bandon, 136 miles from Dublin. It is reckoned the third town in the kingdom, and inferior only to Cork in

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point of trade. It is neat, well built, and wealthy; and is governed by a fovereign and recorder. It is defended by a ftrong fort built by King Charles II. called Charles's fort; and on the oppolite fhore there are two well-built villages, called Coĩe and Scilly. In the town and liberties are 6 parihes, 30 plough lands, and thercin 68,6 acres, and the population amounts to 10,000 . The barracks hold 12 companies of foot, befides a regiment at Charles's fort. In the centre of the town is a good market-houle, and near it a ftrong built prifon; and there are fattered up and down the ruins of feveral monafteries and religious houfes. In time of war Kinfale is a place of much bufinefs, being then frequented by rich homeward bound tleets and hips of war, for which reafon moft of the houles are then let at double rents. The harbour is very commodious, and perfectly fecure; fo large that the Engliih and Dutch Smyrna fleets have anchored in it at the fame time. There is a dock and yard for repairing thips of war, and a crane and gun wharf for landing and thipping heavy artillery. Ships may fail into or out of this harbour, keeping in the middle of the channel, with the utmoft farety. Within the haven on the weft ide lies a great thelf, which hoots a great way off from the land; but leaves an ample pafiage by the fide of it, in which, as in all the reat of the harbour, it is many fathoms deep. Lord Kinfale has the ancient privilege of keeping his hat on in the king's prefence. Kinfale gives the title of baron to the very ancient family of Courcy, lineally defcended from John de Courcy earl of Uliter, who from him have the privilege to be covered in the prefence of the king of England.

KINTORE, a royal borough of Aberdeenfhire int Scotland, fituated on the river Don, in W. Long. 2. 5 . N. Lat. 57. 38. It gives the title of ear/ to a branch of the noble family of Keith, but in otber refpects is inconfiderable.

## Kintyre. See Cantire.

KIOF, or Kiow, a confiderable town of Puland, and capital of the Ukrain, in the palatinate of the fame name, with an archbifhop's fee and caftle. It belongs to Ruffia, and carries on a confiderable trade. It is divided into the Old and New Town, and feated on the river Nieper, in E. Long. 31. 51. N. Lat. 50. 12.

KIPPIS, Andrew, a learned and eminent Englifa non-conformitt divine and biographer, was born at Nottingham, on the 28th of March 1725. On the death of his father, he was removed to Sleaford in Lincolnthire at five years of age, where he received his grammar education, and gave fuch early proofs of talents and progrefs, as attracted the notice of Mr Merrivale, the paftor of a congregation of difienters at that place. To this excellent man it was probably owing that young Kippis directed his views to the profeffion of a diffenting miniffer, and to thofe fludies in which he afterwards fo much excelled. In 1741 the was placed in the academy at Northampton, under the tuition of the celebrated Dr Doddridge, a feminary at that time in high reputation. Of the adrantages which this inftitution afforded him, Mr Kippis knew how to make the beft improvement, and his regular conduct and proficiency fecured him the efteem of his worthy tutor. Having completed his courfe of fludies in five years, he was invited to a diffenting congregation at

Dorchefter,

Kippis.

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Kipp:c. Dorchefor, but he gave the prefererice io a fimilar call from Rofton in Lincolnhire in 1746 , where he remain$\epsilon \mathrm{d}_{\text {ti'l }} 175^{\circ}$, removing from thence to Dorking in Surry, and two years after to Long Ditch, Weltminfler, in the room of Dr Hughes deceafed. This was in October 1753 , and in the preceding month he married I.lifs Elizabeth Bott, the daughter of a merchant at Bofton.

The fituation, for which Mr Kippis was emineatiy qualified by his extenfive abilities, being now refpectable, introduced him to ufeful and honourable comections. He became a manager of the prefbyterian fund for the affiltance of poor congregations in the country in fupporting their minifters, and in 1762 he was chofen a member of Dr Williams's truft, nearly for finilar purpofer, together with the doctor's valuable library, whicis affurded him opportunities of very exten? .. ufefulncis. In 1762 , he fignified among his friends his delign of taking private pupils, and was on the eve of entering into engagements with the parents of two or three young gentlemen, when a more honourable although a lefs lucrative employment was offered him. He was appointed claffical and philological tutor in Coward's academy, an office which he filled for upwards of 25 ycars with uncommon reputation to himfelf, and unipeakable advantage to his ftudents. He received the degree of D. D. from the univerfity of Edinburgh, by the urfolicited recommendation of the learned Profellor Robertion in 1767 ; in 1778 he was made a member of the Antiquarian, and in 1779 a fe!low of the Royal Society.

His literary engagements growing extremely numerous, in 1784 he was obliged to refign his appointment in Coward's academy, which was difcontinued in the fubfequent year. In 1786 , attempts were made to eftablifh a new academy in the vicinity of London; a defign which Dr Kippis exerted all his infuence to accomplith; and although his numerous engagements made it extremely difficult for him to fill any department in it, he reluctantly yielded to the wiftes of the lubfcribers, and became a tutor. But the inconvenience arring from the diftance of Hackney from his place of reindence, made him refign that office in a few: years. His profeffional duties and private ft"dies occupied his time after this period; and as he enjoy. ed an uninterrupted ftate of good health and contitutional vigour, made his friends hope that his life and u.efolncfs would be long continued; but in confequence of a cold which he caught on a journey, he was feized with a fever which no medical knowleage could fubdue, and he dicd on the 5 th of October 1795 , in the 711 year of his age.

Dr Kippis was diftinguiked in a high degree for thofe virtues and accomplifments which are univerfal. ly allowed to be the chief ornaments of human nature. His temper was mild and gentle, benevolent and candid; lis mamers and addrefs were cafy, polithed and conciliating. Notwithftanding his great reputation, he was void of pride, vanity, and felf conceit; he was humble, modelt, affable and engaging. The powers and vigour of his mind were far above mediocrity; te had a found judgement, a comprehenfive underflanding, correct imagination, retentive memory, a refined tale, and he could excrt his facultics on any fubject
with the utmoil facility. He was an early riier from his youth, to which in a great meafure his good health may be afcribed. He excelled in his acquaintance with the claffics, belles-lettres, hitory, and biograplyy. He was the fleady friend and adrocate of genuine civil and religious liberty; and as a divire, he was well acquainted with the different branches of theology, and with thofe fubjects which are fubfervient to the critical ftudy of the Scriptures. He very leldom introduced controverted topics into the pulpit, but confined himfelf to fuch doctrines and duties as have an imenediate influence on the temper and practice.

His works are numerous and valuable, of which we give the following as a fpecimen : Review of the Tranfactions of the prefent Reign; The Hiltory of Learning, Knowledge, and Tafte in Great Britain ; A Vindication of the Proteftant Diffenting Minifters, with regard to their late application to Parliament; Confiderations on the Provifional Treaty with America, and the Preliminary Articles of Peace with France and Spain; the Life of Sir John Pringle; Six Difcourles delivered at the Royal Society, on alfiyning the Copley Medal; the Life of Captain James Cook, of Dr Lardner, and Dr Doddridge; Sermons preached olt public occafions; Biographia Britannica, \&c. \&cc. This lalt great work, which he did not live to finim, has affigned him a high rank among the learned of his country, and will tranfmit his name to pollerity with ditinguifhed reputation.

KIRCH, Christian-Erederic, of Derlin, a celebrated attronomer, was born at Guben in 1694 , and acquired great reputation in the obfervatories of Dantzic and Berlin. Godfrey Kirch his father, and Mary his mother, acquired confiderable reputation by their aftronomical obfervations. This family correfpended with all the learned focieties of Europe, and their aftronomical works are in fome repute.

KIRCHER, Athañasius, a famous philofopher and mathematician, was born at Fulde in 1 for. In 16:8, he entered into the fociety of the Jefuits, and taught philofophy, mathemarics, the Hebrew and Syriac languages, ia the univerfity of Witzburg, with great applaufe, till the year 1631. He went to France on account of the ravages committed by the S:wedes in Franconia, and lived fome time at Avignon. He was afterwards called to Rome, where he taught mathematics in the Roman college, collected a rich cabinet of machines and antiquities, and died in 1680.The quantity of his works is immenfe, amounting to 22 vols in folio, 11 in quarto, and 3 in 8 8o; enough to employ a man for a great part of his life even to tranfcribe them. Mof of them are rather curious than ufeful; many of them vifionary and fanciful; and if they are not always accompanied with the greatelt exactnefs and precition, the reader, it is prefumed, will not be aftonifhed. The principal of his works are, 1. Pretufiones magneticie. 2. Primitice gnomonicer catoptricue. 3. Ars magna lucis et umbrie. 4. Mufurgia univerfalis. 5. Obelifus Pamphilius. 6. Oedipus itgyptiacus, four volumes, folio. 7. Iinerarium extaticum. 8. Obclifcus Egyptianus, in four volumes folio. 9. IIundus fubterraneus. то. China illnfrata.

KIRIATHAIM, in Ancient Geography, onc of the towns built by the Reubenites; reckoned to the

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:rishb- tribe of Reuben (Joflua siii.), 12 miles to the weft of arta Midaba. 'ithe ancient refidence of the giants called Emin?.

Kiriath-arba. See Mfbron.
Kiriath-Baal, or Caricth-Bael, called alio Kirinthjearim, " the city of the woods; one of the cities of the Gibeonites, belonging to the tribe of Judat, nine miles from 乍lia, in the road to Diofpolis. It was alfo called Baala (Joftua.) The ark of the covenant, after its recovery from the Prililitines, Atood for fome time in this city (I Sam, vii.)

KIRK, a Saxon term, fignifying the fame with churel.

Kira-Sefions, the name of a petty ecclefiaftical judicatory in Scoiland. Each parifh, according to its extent, is divided into feveral particular diftichs; every one of which has its own elder and deacon to overfee it. A confifory of the minifters, elders, and deacons of a parifh, forms a kirk-foflion.-There meet once a-week, the miniter being their moderator, but without a negative voice. It regulates matters relating to public worhip, catechifing, vifitations, \&c. It judges in leffer matters of fcandal; but greater, as adultery, are left to the prefloytery; and in all cafes an appeal lies from it to the prefbytery. Kirkfeflions have likewife the care of the poor and poor's funds.

KIRKALDY, a town of the county of Fife in Scotland, two mile to the north-eaft of Kinghorn. It is a royal borough, the feat of a prcfbytery, and gives the tille of baron to the earl of Melvill. The town is populous, well built, and extends a mile in length from eaft to weft, enjoying a confiderable trade by exporting its own produce and manufactures of corn, coal, linen, and falt. W. Long. 3. o. N. Lat. 56. 8.

KIRKBY-LoNsDALE, a town of Weftmorland, 253 miles from London. It is a large place, with a woollen manufactory, and a market on Tuefday. It has a free fchool well endowed, with three prefentations to Chrift's college Cambridge. It has a large church, and a good ftone bridge of three arches over the Lon. From its churchyand and the banks of the river, there is a very fine profpect of the mountains at a vaft diftance, as well as of the courfe of the river, which abounds with falmon, trout, \&c. and provifions of all forts are very cheap here.

Kirsey-Steven, or Stephen's Church, a town of Weftmorland, 257 miles from London, ftands on the river Eden near Sedbergh and Afgarth. The church is a large building with a lofty tower; in it are feveral old monuments. Here is a good free fchool that has two exhibitions. The town is noted for the manufactory of yam flockings; and it has a market and a fair.

Kirabr-Thore, a town of Weftmorland, flands alfo on the river Eden, north-weft of Appleby, 267 miles from London. A horn of a moofe deer was found here a few years fince, at the depth of four feet from the furface of the earth : and feveral other antiquities have been dug up or taken out of a well, difcovered at the end of the town near the bridge. Below it are the raft ruins of an ancient town, where Roman coins and urns are frequently dug up. The people call it Whely cafle, 300 yards in length, and 1 go in breadth,
with three cutrances on each fide, with bulwaris be- Lurkcửfore them. At a litile dillance from thence Roman bright, urns are found, containing butes and alles. The old military way runs througl it, called the Maiden-way, becaufe it began at Maiden-caftle in Stainmore in Yorkilime, north riding.

KIRKCUDBRIGITY, county or ftewartry of, mal.cs a confiderable part of Galloway, and of which the earls of Nithifdale were hereditary ftewards. It is 45 miles long and 30 broad, and with Wigtonthire fommed the ancient province of Galloway. The face of the country eshibits the appearance of one continued heath, producing nothing but pallure for fteep and fmall blac! cattle, which are generally fold in England; yet thefe dufky moors are interfecled with pleafant valleys, and adorned with a great number of caftles belonging to private gentlemen, every houle being furrounded with an agreeable plantation It is watered by the river Dee; which, taking its rife from the mountains near Carrick, runs through a tract of land about 70 miles in length, and, entering the Irihh fea, forms the harbour of Kircudbright, a borough town, well fituated for the fifhery and other branches of commerce. There is no other torm of any confequence in this flewartry. Kircudbright gives title of baron to the Maclellans, formerly a powerful family in the county. The population of this county, according to its parifhes, is the following.

Parifies.

| Parifhes. | Population in 1795. | Population $1790-179$ |
| :---: | :---: | :---: |
| 1 Anwoth | $53 \%$ | 495 |
| Balmaclellan | 534 | 495 |
| Balmacghie | 697 | 862 |
| Borg | 697 | 771 |
| 5 Buittle | 899 | 855 |
| Carfefairn | 609 | 461 |
| Colvend | 898 | 964 |
| Crofmichael | 613 | 772 |
| Dalry | 891 | 1100 |
| 10 Girthon | 367 | 1730 |
| Irongray | 895 | 762 |
| Kells | 784 | 869 |
| Kelton | 811 | 1600 |
| Kirkbean | 529 | 663 |
| 15 Kirkcudbright | 1513 | 2295 |
| Kirkgunion | 489 | 520 |
| Kirkmabreck | 858 | 1088 |
| Kirkpatrick Durham | 699 | 1500 |
| Lochrutton | 564 | 528 |
| 20 Minigaff | 1209 | 1420 |
| Newabbay | 634 | 649 |
| Orr | 1193 | 1354 |
| Parton | 396 | 409 |
| Rerwick | 1051 | 1050 |
| 25 Terregles | 397 | 510 |
| Troqueer | 1391 | 2600 |
| Tungland | 537 | 520 |
| 28 Twynhame | 51.9 | 620 |
| $=$ | 21,205 | 26,959 |
|  |  | 21,205 |
|  | ncreafe | 54 |

KIRKIAM, a town of Lancaflire, 221 miles $3 \mathrm{~N}_{2}$ froms

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Kirkniwahd from London, fands near the Ribble, fix miles from If the Irilh fea, in that part of the county called the Kirfenfius Ficld lands. It has a market and three fairs, and a free fohool wall endowed. By means of inland navigation, it has a communication with the rivers Merfey, Dee, Ribble, Oufe, Trent, Darwent, Severn, Humber, Thames, Avon, \&c. which navigation, including its windings, extends above 500 miles, in the counties of Lincoln, Nottingham, York, Weftmorland, Chefter, Warwick, Leicefter, Oxford, Worcefter, \&e.

KIRKOSWALD, a town of Cumberland on the Eden, 291 miles from London. It had formerly a raftle, which tras demolifhed above 100 years ago. It has a market and two fairs. Its church is a very irregular old building; and the belfry is placed diffant from the church on the top of a hill, that the found of the bells might be more eafily heard by the circumjacent villages.

KIRKWALL, the capital of the Orkneys, fituated in the ifland of Pomona, in W. Long. 0. 25. N. Lat. 58.33. It is built upon an inlet of the fea near the middle of the iffand, having a very fafe road and harbour for fhipping. It is a royal borough, governed by a provoft, baillies, and common council. It was formerly pofleffed by the Norwegians, who beftowed upon it the name of Crucoviaca. From King James III. of Scotland they obtained a new charter, empowering them to elect their own magiftrates yearly, to hold borough courts, arreft, imprifon, make laws and ordinances for the right government of the town; to have a weekly market, and three fairs anfually at certain fixed terms: he moreover granted to them fome lands adjoining to the town, with the cuftoms and fhore dues, the power of pit and gallows, and exempted them from the expence of fending commiffioners to parliament. This charter has been confirmed by fucceeding monarchs. At prefent Kirkwall is the feat of juftice, where the feward, theriff, and commiffary, hold their feveral courts of jurifdiction: Here is likewife a public grammar fchool, endowed with a competent falary for the mafter. The zown confifts of one narrow ftreet about a mile in length; the houfes are chiefly covered with flate, though not at all remarkable for neatnefs and con-venience.-The principal edifices are the cathedral church and the bifhop's palace. The former, called St Magnus, from Magnus king of Norway, the fuppofed founder of the town, is a large Gothic ftructure : the roof is fupported by 24 pillars on each iide, and the fire is built upon four large columns. The gates are decorated with a kind of mofaic work, of red and white flones elegantly carved and flowered. By the ruins of the king's caftle or citadel, it appears to have been a ftrong and fately fortrefs. At the north end of the town a fortification was built by the Englifh in the time of Oliver Cromwell, but it is now in ruins. It is furrounded with a ditch and rampart, and ftill mounted with fome cannon for the defence of the harbour.

KIRSTENSIUS, PETER, profefor of phyfic at Upfal, and phyfician extraordinary to the queen of Stieden, was born at Brellaw in 1577. He ftudied Greek, Latin, Hebtew, Syriac, natural philofophy, anatomy, botany, and other fciences. Being told that 3. man could not diftinguifh limfelf in phyfic unlefs
he underfood Avicenna, he applied himfllf to the ftudy of Arabic; and not only to read Avicenna, but alfo Mefue, Rlafis, Abenzoar, Abukatis, and Averroes. He vifited Spain, Italy, England, and did not return home from his travels till after feven years. He was chofen by the magillrates of Breflaw to have the direction of their college and of their fchools. A fit of ficknefs having obliged him to refign that difficult employment, with which he was allo much difgufted, he applied himfeli chiefly to the practice of phyfic, and went with his family into Pruffia. Here he obtained the friendinip and effecm of the chancellor Oxentiern, whom he accompanied into Sweden; where he was made profeflor of phyfic in the univerfity of Upfal, and phyfician to the queen. He died in 1640. It is faid in his epitaph, that he underftood 26 languages. He wrote many works; among which are, 1. Liber fecundus Canonis Avicennee, cypis Arabicis, ex A1SS. editus, et ad verlum in Latimum tranflatus, in folio. 2. De vero $u \int_{\mu}$ et abufu Medicince. 3. Grammatica Aralica, folio. 4. Vitue quatuor Evangelifa. rum, ex antiquiffino codice BSSS. Aralico eruta, in folio. 5. Note in Evangelium S. Mathaci, ex collatione tevtuum Arabicorum, Syriacorum, Egyptiacorum, Gracorum, et Latinorum, in folio, \&c.

He ought not to be confounded with George ǨerRenius, another learned phyfician and naturalift, who was born at Stettin, and died in 1660 ; and is alfo the author of feveral works.

KIRTLE, a term ufed for a hlort jacket; alfo for a quantity of flax about a hundred weight.

KIRTON, or Kirkton, a town of Lincolnfhire, I 51 miles from London. It had its name from its kirk or church, which is truly magnificent. It has a market and two fairs. This place is famous for the pippin, which, when grafted on its ftock, is called the rennet. It gives name to its hundreds, in which are four villages of the fame name.

KISSER, the ancient Colonia Affuras in Africa, as appears from many infcriptions ftill to be met with in the place. Here is a triumphal arch done in a very good tafte : there is alfo a fmall temple of a fquare figure, having feveral inftruments of facrifice earved upon it; but the execution is much inferior to the defign, which is very curious. The town is fituated in, the kingdom of 'runis, on the declivity of a hill, above a large fertile plain; which is ftill called the plain of Surfo, probably from its ancient name $A f$ furas.

KISSING, by way of falutation, or as a token of refpect, has been practifed in all nations. The Roman emperors faluted their principal officers by a kifs. Kiffing the mouth or the eyes was the ufual compliment upon any promotion or happy event. Soldiers kiffed the general's hand when he quitted his office. Fathers, amongft the Romans, had fo much delicacy, that they never embraced their wives in the prefence of their daughters. Near relations were allowed to kifs their fomale kindred on the mouth : but this was done in order to know whether they fmelt of wine or not; becaufe the Roman ladies, in fite of a prohibition to the contrary, were found fometimes to have made too free with the juice of the grape. Slaves kifled their mafters hand, who ufed to hold it out to them for that purpofe. Kiffing was a cultomary mode of falu-

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tation amongh the Jews, as we may collect from the circumftance of Judas approaching his Mafter with a kifs. Relations nfed to kifs their kindred when dying, and when dead; when dying, out of a ftrange opinion that they fhould imbibe the departing foul; and when dead, by way of valeditory ceremony. They even kifled the corple after it was conveyed to the pile, when it had been feven or eight days dead.

KISTI, an Afratic nation, which extends from the highen ridge of Caucafus, along the Sundtha rivulets. According to Major Rennel *, they are bounded to the weft by the little Cabarda, to the eaft by the Tartars and Lefguis, and to the fouth by the Lefguis and Georgians. He imagines they may be the people whom Gaerber calls the Taufinzi, i. e. " mountaineers," and to whom he attributes the following ftrange cuftom :-" When a gueft or flranger comes to lodge with them, one of the hoft's daughters is obliged to receive him, to unfaddle and feed his horfe, take care of his baggage, prepare his diuner, pais the night with him, and continue at his difpofal during his flay. At his departure, fie faddles his horfe and packs up his baggage. It would be very uncourtly to refufe any of thele marks of hofpitality." The different tribes of this reftefs and turbulent nation are generally at variance with each other, and with all their neighbours. Their dialects have no analogy with any known language, and their hiftory and origin are at prefent utterly unknown.

Their diftricts, as enumerated in Major Renncl's Memoir, are, I. Ingufhi, about 60 miles io the fouthward of Mofdok, in the high mountains about the Kumbelei. 2. Endery ; and, 3. Axai, on a low ridge between the Sundiha and Iasai rivers. In their territories are the hot wells. 4. Ackinyurt towards the upper part of the Sundtha and Kumbelei. 5. Ardakli, on the Rofhni that joins the Sundha. 6. Wapi, near the Offetin village Thim, towards the fource of the Terek. 7. Angulht, on the upper part of the Kumbelei. 8. Shalkha, called by tbe Ruffians Maloi Angu/bl. 9. Thethen, on the lower part of the Argun river. 10. Atakhi, a folll diftrict on the upper part of the Argun. 11. Kulga, or Dhanti, in the high mountains. 12. Galgai, or Halha, about the fource of the Afai, a Sundiha rivulet. 13. Tihabrilo, and Shabul, on the Sundha. 14. Thifhni-Kabul, on the Roihni, a Sundiha rivulet. 15. Karaboulak, a wandering tribe, who have their little villages about the Gx uppermoft rivulets of the Sundha, particularly the Fortan. 16. Meefti, Meredhi, Galahka, and Duban. are fmall tribes on the Axai.

The Ingulhi, or firt of the above tribes, fubmitted to Ruffia in 1770. They are capable of arming about 5000 mes; they call themfelves Ingu/hi, Kifi, or Halha; they live in viliages near each other, containing about 20 or 30 houfes; are dligent hufbardmen, and rich in cattle. Many of their villages have a ftone tower, which ferves in time of war as a retreat to their women and children. and as a magazine for their effects. Thefe people are all armed, and have the cuftom of wearing Chields.-Their religio:? is very imple, but has fome trases of Chriftianity : 'They believe in one God, whom they call Dailc, but lave no faints or reIigious perfons; they celebrate Sunday, not by any re-
ligious ceremony, but by refting from labour; they have a faft in fpring, and another in funmer; they obferve no ceremonies either at births or deaths; they allow of polygamy, and eat pork. One kind of facrifice is ufual among them : at certain times a theep is killed by a perfor who feems to be conlidered as a kind of prieft, as he is obliged to live in a itate of celibacy. His habitation is in the mountains, near an old ftone church, which is faid to be adorned with various flatues and infcriptions. Under the church is a vault that contains certain old books, which, however, no one ever attempts to approach. Mr Guldenftaedt $\dagger$ was prevented by the weather from vifiting this church.

Phe p.isc. The 6th, 7 th, and 8th tribes, which were formerls tributary to the Cabardean princes, fubmitted to Rulfia in 1770. The gth, Thethen, is governed by its own chiefs, who are related to the Avar-Khan. This tribe is fo numerous and warlike, and has given the Ruffians fo much trouble, that its name is ufually given by them to the whole Kifti nation. The chief village of Thetflhen lies on the Argun, about 15 miles from its mouth. Its other principal villages are Hadfhiaul and Iangejent, both on the Sundiba.

KIT, in Mufic, the name of a fmall violin of fuch form and dimenfion as to be capable of being carried in a cafe or theath in the pocket. Its length, meafuring from the extremities, is about 16 inches, and that of the bow about $1_{7}$. Sinall as this inftrument is, its powers are co-extenfive with thofe of the violin.

Kic-Kat Club, an affociation of above $3^{5}$ noblemen and gentlemen of diffingaifhed merit, formed in 1703, purely to unite their zeal in favour of the Proteltant fucceffion in the houfe of Hanover. Their name was derived from Chriftopher Kat, a paftry cook, near the tavern where they met in King's ffreet, Weftminfter, who often fupplied them with tarts. Old Jacob Tonfon was their bookfeller; and that family is in poffeffion of a pifure of the original members of this famous club, painted by Sir Godfrey Kneller. 'The defign of thefe gentlemen was to recommend and encourage true loyalty by the powerful influence of wit and humour; and Sir Samuel Garth diltinguihed himfelf by the extempore epigrams he made on their toatts, which were infcribed on their drinking glaffes.

KITCHEN, the room in a houfe where the provifions are cooked.

Army Kifchen, is a fpace of about 16 or 18 feet diameter, with a ditch furrounding it three feet wide; the oppofite baik of which ferves as a feat for the men who drefs the victuals. The kitchens of the flank companies are contiguous to the outline of the camp; and the intermediate fpace is generally diftributed equally for the remaining kitchens; and as each tent forms a mefs, each kitchen muft have as many fire places as there are tents in the company.

Kifchen Garden, a riece of ground laid out for the cultivation of fruit, herls, pulfe, and other vegetables, ufed in the kitchen. See Gardening.

Kite. See Filco, Orsithology Indcx.
Kittiwake. Sce Larus, Orwishology Inodex.

Kilderar. See Pirtufitus, Bol in frár.
K:LN tchfonefou. See $H$.al
KLEINHOVIA, a genus ot f

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"kleif. the cymandria clafs, and in the natural metlad ranking under the aytlo order, Columnificre. See Botany Incix.

Kl.EIST, EDward Christian de, a celebrated Geiman pret, and a foldier of diftinguithed bravery, was corn at Zeblin, in Pomerania, in 1715 . At nine years of age he was fent to purfue his fludies at Cron in Puland ; and he afterwards ftudied at Dantzic and Koning fberg. Haring finited his tudies, he went to vifit his relations in Denmark, who invited him to fettle there; and having in vain endeavoured to obtain preferment in the law, at 21 years of age accepted of a poft in the Danifh army. He then apf:ied himfelf to the fudy of all the fciences that have a relation to military affairs, with the fame affiduity as he had before ftudied civil law. In 1740 , at the beginning of the reign of Frederic king of Pruffia, Mr de Kleit went to Berlin, and was prefented to his majelty, who made him lieutenant of his brother Prince Henry's regiment ; and he was in all the campaigns which diftinguined the five firlt years of the ling of Pruffia's reign. In 1749 he obtained the poft of caftain; and in that year publifhed his excellent poem on the Spring. Before the breaking out of the laft war, the king chofe him, with fome other officers at Potdam, companion to the young Prince Frederic William of Pruflia, and to eat at his table. In the firt campaign, in 1756, he was nominated major of Haufen's regiment; which being in garrifon at Leiplic, he had time to finith $\int$ everal new poems. After the battle of Roblach, the king gave him, by ail order in his own handwriting, the infpestion of the great hofpital eftablifhed at Leipfic. And on this occafion his humanity was celebrated by the fick and wounded of both parties, and his difintereftednefs was cqually adinired by all the inhabitants of that city. In 1758, Prince Henry coming to Leipfic, Mr Kleift defired to ferve in his army with the regiment of Haufet, which was readily granted. Opportunities of diftinguifhing himfelf could not be wanting under that great officer, and he always communicated his courage to the battalion under his command. He alfo ferved that prince at the beginning of the campaign of 1759, when he was with him in Franconia, and in all the expeditions of that army, till he was detached with the troops under General de Fink to join the king's army. On the 12th of Auguf was fought the bloody battle of Kunnerfdorf, in which he fell. He attacked the flank of the Ruffians, and affifted in gaining three batteries. In thefe bloody attacks he received twelve contufions; and the two firft fingers of his right hand being wounded, be was forced to hold his fword in the left. His poft of major obliged him to remain behind the ranks; but he no fooner perceived the commander of the battalion wounded and carried away, than he inflantly put himfelf at the head of his troop. He led his battalion in the midft of the terrible fire of the enemy's artillery, againft the fourth battery. He called up the colours of the regiment; and, taking an enfign by the arm, led bim on. Here he received a ball in his left arm; when, being no longer able to hold his fword in his left hand, he took it again in the right, and held it with the two laft fingers and his thumb. He flill puhned forward, and was within thirty fleps of the battery, when his right leg
was thattered by the wadding of one of the great Niloptoc guns; and he fell from his horfe, crying to his men, "My bors, don't abandon your king." By the affiftance of thofe who furrounded him, he endeavoured twice to remount his horfe; but his ftrength forfook him, and he fainted. He was then carried behind the line; where a furgeon, attempting to drefs his wounds, was thot dead. The Cofiacks arriving foon after, flripped Mr K!eift naked, and threw him into a miry place; where fome Ruffian buffars found him in the night, and laid him upon fome fraw near the fire of the grand guard, covered him with a cloak, put a hat on his head, and gave him fome bread and water. In the morning one of them offered him a piece of filver, which he retufed; on which be toffed it upon the cloak that covered bim, and then departed with his companions. Soon after the Coffacks returned, and took all that the generous huffars had given him. Thus he again lay naked on the earth; and in that cruel fituation continued till noon, when he was known by a Ruflian officer, who cauled him to be convered in a waggon to Frankfort on the Oder; where he arrived in the evening, in a very weak flate, and was inftantly put into the hands of the furgeons. But the fractured bones feparating, broke an artery, and he died by the lofs of blood. The city of Frankfort being then in the hands of the enemy, they buried this Pruffian hero with all military honours: the governor, a great number of the Ruffian officers, the magifrates of the city, with the profeffors and the fludents, formed the proceffion, preceded by the funeral mufic. Mr Kleitt's poems, which are greatly admired, are elegantly printed in the German tongue, in two volumes 8vo.

KLOPSTOCK, Frederic Theophilus, who was born at Quedlinburg in 1724 , was the greateft and moft juitly celebrated of the German poets. His father was a man of an elevated charaEter, and a masiltrate of that place, who afterwards farmed a bailiwick in the Brandenburg part of Mansfeld. Klopfock was the oldeft of eleven children, and having received the rudiments of education at home, he was put to the public fchool of Quedlinburg, where he foon became confpicuous both for bodily and mental exercifes. He went to the college of the fame place at the age of fixteen, where, under the tuition of an able teacher, he obtained a knowledge of, and tafte for, the beauties of the beft claffical authors. He compofed fome paftorals in verfe; and even at this early period he conceived the buld detign of writing an epic poem, fixing at length, after much deliberation on the "Mefliah," by which he has rendered his name immortal.

He commenced the fludy of theology at the univerfity of Jena, in the year 174.5, although in his retirement he was conftantly ruminating on his great projected work already mentioned, fketching out the three firft cantos. They were firf written in profe, as the common meafure of German verfe did not accord with his own fentiments. Tranfported with the melody of Homer's and Virgil's ftrains, he determined to make trial of German hexameters, in which he fucceeded fo entirely to his orn fatisfaction, that he fixed upon this majeftic verfe for the whole of his poem. By his removal from Jena to Leipzig in $17 \AA 6$, he became acquainted with a number of young votaries of the mufes,

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lopfocik．who occafionally publifhed their efiays in a paper cal－ led the＂Bremen Contricutions，＂in which appeared the three cantos of Klopitock＇s Meffiah，and a number of his odes，for which he was fo applauded as to ani－ mate him to perfevere．

He quisted Leipzig in 1748 ，and refided at Lan． genfalza，where be carried on a fruitlefs correfpondence with a beautiful young lady，who difcovered no incli－ nation to return his palfion，which for fome time threw a gloom over his mind．He now publihed ten books of his Meffiah，by which he came to be known and admired all over Germany．It was an extremely po－ pular work among all thofe who were at once the lo－ vers of poetry and devotion．It was quoted from the pulpit by young divines，while others of a more fern deporment found fault with the author，as indulging too much in fiction on facted topics．

He travelled into Sxitzerland in 1750 to pay a vifit to Bodmer of Zurich，in confequence of an invitation， where he was received with every token of refpect． The lublime fcenery of that countiy，the fimplicity of its inhabitants，and the freedom they enjoyed，were admirably fuited to the tafte and fentiments of Klop－ ftock．Here in all probability he would have breath－ ed his latt，had not Baron Bernftorff，who was charm－ ed with his poetry，engaged Count Niolke，after re－ tuming from France to Copenhagen，to invite him to that city，with anturances of fuch a penfion as would make him independent．Our author accordingly fet out for Copenhagen in the year 175 r ，by the way of Brunfwick and Hamburgh，at which latter place he became acquainted；with a young lady（Mifs Moller） of literary abilities，and a heart fufceutible of tender impreitions．They were foot：after married，and feem－ ed defined by providence to be one of the happieft couples upon earth，bui he was very foon deprived of her，for the died in childbed，and her memory was fa－ cred to Klopftock to the laft hour of his exiftence．He lived for the moft part at Copenhagen till the year ：771，after which he refided at Hamburgh in the capa－ city of royal Danifh legate，and counfellor of the mar－ grave of Baden，who gave him a penfion，and engaged him to pals the year 1775 at his palace of Carlsrube． Such was the diffidence of our poet，that it required the mofl extraordinary condefcenfion on the part of the great to make him eafy in their prefence．

The decline of his health made no change on the fabitual tranquillity of his mind ；he contemplated his approaching diffolution without any difmay，and his pious fortitude continued unfhaken amidft the feverelt fuferings．He died at Hamburgh in Narch 1803 ， being 79 years of age，and his funeral was attended with fuch horiours as juftly belonged to the greateft poet of the country．

The character of Klopltock as a poet is that of exu－ berance of imagination and fentiment．His fublimity， which is nearly unparalleled，makes him almost lofe himfelf in myftical attraition．A great critic claims for the author of the Mefliah，and we think jufly， a rank among the very firit clafs of pocts．His odes and lyric poems are much admired by his country－ men，and his dramatic works difplay great force and dignity，but are thought to be better adapted to the clofet than the theatre．He was alfo an excellent
profe writer，as is fully evirrced by his＂Gramniatical Dialogues．＂

KNARESBOROUGH，a town in the weft rid－ ing of Y゙orkhire in Eingland， $1=9$ miles from London， is an ancient borourh by prefcription，called by fo－ reigners the Corkfire Spaw．It is almoll encompaffed by the river Nid，which iffues from the bott m of Craven hills；and had a priory，with a caftle，long fince demolihed，on a craggy rock，whance it took the name．The town is about three furlongs in length； and the parifh is famous for four medicinal Springs near each other，and yet of different qualities．1．The fweet 〔pars，or vitriolic well，in K゙narelborough forelt， three miles from the town，which was difcovered in 1620．2．The ftinking or fulphureous fpaw，which is ufed only in bathing．3．St Mungo＇s，a cold bath，four miles from the town．4．The dropping well，wbich is in the town，and the mof noted petrifying foring in England，fo called by reafon of its dropping from the fongy rock hanging over it．The ground which receives it，before it joins the well，is，for 12 yards long，become a folid rock．From the well it runs in－ to the Nid，where the fpring water has made a rock that Atretches fome yards into the river．The adjacent fields are noted for liquorice，and a foft vellow marl which is rich manure．The town is governed by a bailiff．Its baths are not io much frequented fince Scarborough Sparr has been reforted to．It has a good market and lis fairs．Here is a fone bridge over the river，near one end of which is a cell dug out of the rock，and called St Robert＇s Chapel．

KNAPDALE，one of the divifions of Argylefinte in Scotland．It is parted from Cowal on the eaft by Lochfyn；bounded by Kintyre on the fouth，by Lorn on the north，by Braidalbin on the north－ealt， and on the weft by the Hebrides．Its length from north to fouth does not exceed 25 miles，and the breadth in fome places may amount to 13 ．It is joines to Kintyre by a neck of land not above a mile broad，over which the country people draw their boats， to avoid failing round Kintyre．This part of Knap－ dale abounds with lakes，fome of them containing lit－ tle illands，on which there are cafles belonging to dif－ ferent proprietors．The grounds are more adapted for pafturage tian grain；but that on the fide of Lochow is fruitful in both．

KNAPSACK，in a military fenfe，a rough lea－ ther bag which a foldier carries on his back，and which contains all his neceflaries．Square knapfacks are molt convenient；and flould be made with a divifion to hold the fhoes，black ball and brumes， feparate from the linen．White goat－fkins are the beft．

KNAVE，an old Saxon word，which had at firft a fenfe of limplicity and innocence，for it fignified a boy： Sax．cnapa，whence a knave child，i．e．a boy，diftin－ guifice from a girl，i！feveral old writers；afterwards it was taken for a fervant boy，and at length for any fervant man．Alfo it was applied to a minifer or officer that bore the flield or weapon of his fuperior ； as field knapa，whom the latins call armizer，and the Erench efcuyer， 14 Edw．IlI．c．3．And it was fome－ times of old made ufe of as a titular addition；as Juannes C．Jilius Williedni C．de Derly，knave，\＆ic． 22 Hen．
ismaze bureugh
K，ave．

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- navelhip VII. c. 37. The word is now perverted to the hardeft $\stackrel{11}{{ }^{1}}$ meaning, viz. a falfe deccitful fellow.

KNAVESH1P, in Scots Lav, one of the names of
the fmall duties payable in thirlage to the millu's fervants, called fiquels.

KNAUTIA, a genus of plants belonging to the tetrandria clafs, and in the natural methot ranking under the 48 th order, Aggregatec. See Botany Index.

KNEE, in Anatomy, the articulation of the thigh and leg boncs. See Anatomy, $\mathrm{N}^{0}$ s 9.

KNe, in a hip, a crooked piece of timber, having two branches or arms, and generally ufed to connect the beams of a fhip with her fides or timbers.

The branches of the knees form an angle of greater or fmaller extent, according to the mutual fituation of the pieces which they are defigned to unite. One branch is fecurely holted to one of the deck beams, whilf the other is in the fame manner attached to a correfponding timber in the Mip's fide, as reprefented by E in the plate of Midship Frame:

Befides the great utility of knees in connecting the berms and timbers into one compact frame, they contribute greatly to the ftrength and folidity of the Gaip, in the different parts of her frame to which they are bolted; and thereby enable har with greater firmnels to refift the effects of a turbulent fea.

In fixing of thefe pieces, it is occafionally neceflary to give an oblique direction to the vertical or fide branch, in order to avoid the range of an adjacent gunport, or becaufe the knee may be fo thaped as to require this difpofition ; it being fometimes dilficult to procure fo great a variety of knees as may be neceffary in the conftruction of a number of thips of war.

In France, the farcity of thefe pieces has obliged their Guipwrights frequently to form their knces of iron.

Knees are either faid to be lodging or hanging. The former are fixed horizontally in the flip's frame, having one arm bolted to the beam, and the other acrofs two or three timbers, as reprefented in the Deck, Plate CLXIX. The latter are fixed vertically, as we have defcribed above. See alfo Ship-Euilding, Deck, and Midship Frame.

KNFE of the Head, a large flat piece of timber, fixed edgewife upon the fore part of a fhip's ftem, and fupporting the ornamental figure or image placed under the bowfpriv. See SHip-Building.

The knee of the head, which may properly be defined a continuation of the ftem, as being prolonged from the flem forwards, is extremely broad at the upper part, and accordingly compofed of feveral pieces united into one, YY (Pieces of the Hull, in Ship-Building Plates). It is let into the head, and fecured to the flhip's bow's by ftrong knees fixed horizontally upon both, and called the cheeks of the head. The heel of it is farfed to the upper end of the fore foot; and it is faftened to the ftem above by a knee, called a fandard, expreffed by \& in the plate.

Befides fupporting the figure of the head, this piece is otherwife ufeful, as ferving to fecure the hoom or bumkin, by which the fore tack is extended to windward; and by its great breadth, preventing the fhip from falling to leeward when clofe hauled fo much as The would otherwife do. It alfo affords a greater fecurity to the bowfrit, by increafing the angle of the
bob-ftay, fo as to make it act more perpendicularly on the bowfprit.

The knee of the head is a phrafe peculiar to Chipwights; as this piece is always called the cut-water by feamen, if we except a few, who, affecting to be wifer than their brethren, having adopted this expreffion probably on the prefumption that the other is a cant phrafe or valsarim.

Carling Knees, in a fhip, thofe timbers which extend from the thip to the hatchway, and bear up the deck on bath fides.

KNELi.ER, Sir Godfrey, a painter, whofe fame is well eftablihed in thefe kingdoms. He was born at Lubeck in 1648 ; and received his firt inttructions in the fchool of Rembrandt, but became afterwards a difciple of Ferdinand Bol. When he had gained as mucis knowledge as that fchool afforded him, he travelled to Rome, where he fixed his particular attention on Titian and the Caracci. He afterwards vifited Venice, and dillinguilhed himfelf fo effectually in that city by bis hiftorical pictures and portraits of the noble families there, that his reputation became confiderable in Italy. By the advice of fome friends he came at lait to England, where it was his good fortune to gain the favnur of the duke of Monmouth: by his recommeadation, he drew the pi\&ture of King Charles II. more than once; who was fo taken with his. Dill in doing it, that he ufed to come and fit to him at his houfe in Covent Garden piazza. The death of Sir Peter Lely left him without a competitor in England, and from that time his fortune and fame were thoroughly eftahlithed. No painter could have more inceffant employment, and no painter could be more diftinguillied by public honour. He was ftate painter to Charles II. James II. William III. Queen Anne, and George I. equally efteemed and refpected by them all : the emperor Leopold made him a knight of the Roman empire, and King George I. created him a baronet. Moft of the nobility and gentry had their likeneffes taken by him, and no painter excelled him in a fure outline, or in the graceful difpofition of his figures: his works were celebrated by the beft poets in his time. He built himelf an elegant houfe at Whitton near Hampton Court, where he fpent the latter part of his life; and died in 1726.

KNIFE, a well known inftrument, made for cutting, and adapted in form to the ufes for which it is defigned.

Knives are faid to have been firft made in England in 1563 , by one Matthews, on Fleet Bridge, London. The importation of all forts of knives is prohibited.

KNIGHT (eques), among the Romans, a perfon of the fecond degree of nobility, following immediately that of the fenators. See Equrstrian Order, and Eguites.

Knight, (or Cneclit, Germ.), in feodal hiftory, was originally an appellation or title given by the ancient Germans to their youth after being admitted to the privilege of bearing arms.

The palfion for arms among the Germanic ftates, as defcribed by Dr Stuart *, was carried to extremity. * Virw gf It was amidet fcenes of death and peril that the young Socirfy in were educated: It was by valour and feats of proweds Europes that the ambitious fignalized their manhood. All the P. $4^{60}$ honours

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Xnight. honours they knew were alloted to ti.e brave. The frord opened the path to glory. It was in the field that the ingenious and the noble flatered molt their pride, and acquired an afcendancy. The firength of their bodies, and the vigour of their councils, fursounded them with warriors, and lifted thenn to command.

But, among thefe nations, when the indivilual felt the call of valour, and wihed to try his ttrength againf an enemy, he could not of his own authority take the lance and the javelin. The admifion of their youth to the privilege of bearing arms, was a matter of too much importance to be left to chance or their orrn choice. A form was invented by which they were advanced to that honour.

The council of the diltric, or of the canton to which the candidate belonged, was afiembled. His age and his qualifications were inquired into; and if he was deemed worthy of being admitted to the privileges of a foldier, a chieftain, his father or one of his kindred, adorned him with a thield and the lance. In confequence of this folemnity, he prepared to difinguinh nimfelf; his mind opened to the cares of the public ; and the domeftic concerns, or the offices of the family from which he had fprang, were no longer the objects of his attention. To this ceremony, fo fimple and fo interefting, the inflitution of knighthood is indebted for his rife.

Knighthood, however, as a fyीlem known under the denomination of Chivalry, is to be dated only from the 1 th century. All Europe being reduced to a flate of anarchy and confurion on the decline of the houle of Charlemagne, every proprietor of a manor or lordhip became a petty fovereign; the manfion houfe was fortified by a moat, defended by a guard, and called a cafle. 'The governor had a party of 700 or 800 men at his command; and with thefe he ufed frequently to make excurfions, which commonly ended in a battle with the lord of fome petty ftate of the fame kind, whole caltle was then pillaged, and the women and treafures borne off by the conqueror. During this flate of univerfal hoftility, there were no friendly communications between the provinces, nor any high roads from one part of the kingdom to another : the wealthy traders, who then travelled from place to place with their merchandife and their families, were in perpetual danger ; the lord of almoft every cafle extorted fomething from them on the road; and at laft, fome one more rapacious than the reft, feized upon the whole of the cargo, and bore off the women for his own ufe.

Thus caflles became the warehoufes of all kinds of rich merchandife, and the prifons of the diftrefled females whofe fathers or luvers had been plundered or flaiu, and who being therefore feldom difpofed to take the thief or murderer into favour, were in continual danger of a rape.

But as fome are always ditinguifhed by virtue in the mof general defection, it happened that many lords infenfibly affociated to reprefs thefe fallies of violence and rapine, to fecure property, and protect the ladies. Among thefe were many lords of great fiefy; and the affociation was at length flrengthened, by a folemn vow, and received the fandion of ? religions ceremony. As the firft krights were men of the Vol. XI. Part II.
highent rank, and the largen polfelions, fuch having limide. moult to lofe, and the leati temptation to iteal, the fratemity was regarded with a kind of reverence, even by thofe againit whom it was tormed. Admifion into the order was decmed the highelk honour: many extraorainory qualifications were required in a candidate, and many new ceremonies were added at his creation. After having fatled from funsite, confefled himfert, and received the facrament, he was drefied in a white: tunic, and placed by himielf at a fide table, where he was neither to fpeak, nor finile, nor to cat : while the knights and ladies, who were to perform the principa! parts of the ceremony, were cating, driuking, and making merry at the great table. At night his armour was conveyed to the church where the ceremony was performed; and here having watched it till the morning, he advanced with his frvord hanging about his neck, and received the benedi\&ion of the prielt. He then kneeled down before the lady who was to put on his ammour, who being affilled by perfons of the firit rank, buckled on his fpurs, put a helmet on his head, and accoutred him with a coat of mail, a cuirafs, bracelets, cuifes, and gauntlets.

Being thus armed cap-a-pee, the knight who dubbed hins Itruck him three times over the fhoulder with the flat fide of his fivord, in the name of God, St Michael, and St George. He was then obliged to watch all night in all his armour, with his fivord girded, and his lance in his hand. From this time the knight devoted himeflf to the redrefs of thofe wrongs which "patient merit of the unworthy takes;" to fecure merchants from the rapacious critelty of banditti, and women from ravifhers, to whofe power they were by the particular confution of the times continually expofed.

From this view of the origin of chivalry, it will be eafy to account for the cafle, the moat, and the bridge, which are found in ronnances; and as to the dwarf, he was a conflant appendage to the rank and fortune of thofe times, and no cafle therefore could be without him. The dwarf and buffoon were then introduced to kill time, as the card table is at prefent. It will alfo be eafy to account for the multitude of captive ladics whom the knights, upon feizing a caflle, let at liberty ; and for the prodigious quantities of ufelefs gold and filver veffels, rich flufs, and other merchandife, with which many apartments in thefe cafles are faid to have been filled.

The principal lords who entered into the confraternity of knights, ufed to fend their fons to each other to be educated, far from their parents, in the myftery of chivalry. Thefe youths, before they arrived at the age of 21, were called bachiclors, or bas chevaliers, inferior knights, and at that age were qualified to receive the order.

So honourable was the origin of an inditution, commonly confidered as the refult of caprice and the fource of extravagance; but which, on the contrary, rose naturally from the flate of fociety in thofe times, and had a very ferious effect in refining the mamers o the European mations. Valour, humanity, courtefy, jultice, honour, wete its characterifics: and to thefe were added religion; which, by infufing a large portion of cothufialtic zeal, carricd them all to a romantic excefs, wonderfully fuited to the genius of the age,

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Kment. aud prooucive of the greateit and molt permanent efreas buth upo:1 policy and nannorr. WYar was carricd un with lefs furocity, when humanity, n:o lefs than courage, came to be deemed the ornament of knight hood, and krighthood a dillinction fuperior to royalts, and an honoar which princes were proud to receive from the hands of private gentlemen: more gentle and polifined manners were introduced, when courtefy was zecommended as the moll amiable of knightly virtues, and every knight desoted limfelf to the fervice of a lady: riolence and oppreffion decreated, when it was accounted meritorious to check and to punith them: " fcrupulous adherence to truth, with the mof religious attention to fulfil every engagement, but particularly thofe between the fexes as more eafily violated, cecame the difinguifhing chatacter of a gentleman, becaufe chivaly was regarded as the fchool of honour, and inculcated the mof delicate fenfibility with refpect to that point; and valour, feconded by fo many motires of love, religion, and virtue, became altogether irrefiftible.

That the fpirit of chivalry formetimes rofe to an extravagant height, and had often a pernicious te: dency, must hoswerer be allowed. In Spain, under the influence of a romantic gallantry, it gave birth to a Series of wild adventures which have been defervedly ridicuI.d: in the train of Norman ambition, it extinguifhed the liberties of England, and deluged Italy in blood; and at the call of fupentition, and as the engine of papal power, it defolated A fia under the banner of the crofs. But thefe ought not to be confidered as arguments againft an inftitution laudable in itfelf, and neceflary at the time of its foundation; and thofe who pretend to deffife it, the advocates of ancient barbarifm and ancient rufticity, ought to remember, that chivalry not only firft taught mankind to carry the civilities of peace into the operations of war, and to mingle politenefs with the ufe of the fuord; but roufed the feul from its lethargy, invigorated the human character even while it foltened it, and produced exploits which antiquity cannot parallel. Nor ought they to forgct, that it gase variety, elegance, and pleafure, to the intercourfe of life, by making women a more efiential part of fociety; and is therefore ensitled to our gratitude, though the point of honour, and the refinements in gallantry, its more doubtful effeas, fhould be excluded fion the improvement of modern manners. For,

To illuftrate this topic more particularly, we may - bforve, that women, among the ancient Grceks and Romans, feem to have been confidered nerely as obiects of fenfuality, or of domeftic conveniency: they were devoted to a flate of feclution and obfority, had rew attentions paid them, and were permitted to take as little fhare in the converfation as in the general commerce of life. But the northern nations, who paid a kind of devotion to the fofter fex, even in their mative forefts, liad no fooner fettled themfelves in the provinces of the Roman empire, than the female character began to affume new confequence. 'Thofe fierce barbarians, who feemed to thirlt only for blood, who involved in one undillinguilhing ruin the morumients of ancient graudeur and ancient ingenuity, and who dewoted to the flames the knowledge of agea, always forbore to offer any violence to the women. They
brought along with them the refpectful gallaniry of Knigh the north, which had power even to reftratis their favage ferocity; and they introduced into the well ut Europe a generolity of fentiment, and a complaiance toward the ladies, to which the molt polifted nations of antiquity were lrangers. - Thefe fentiments of generous gallantry were follored by the inflitution of chivalry, which lifted women yet higher in the fale of life. Inflead of being nobody in fociety, fle became his primum mobile. Every linight devoting himfelf to danger, declared himfelf the humble fervant of fome lady, and that lady was often the object of his love. Her honour was fuppofed to be intimateiy corrnected with his, and her fmile was the reward of his valour: for her he attacked, for her he defended, and for her he fhed his blood. Courage, animated by fo powerful a motive, loft fight of cuery thing but enterprile: incredible toils were cheerfully endured, incredible actions were performed, and adventures feemingly fabulous were more than realized. The effect was reciprocal. Women, proud of their intluence, became "orthy of the heroifm which they had infpired : they were not to be approached but by the high minded and the brave; and men then could only be admitted to the bofor of the chafte fair, after proting their fidelity and affection by years of perleverance and of peril.

Agair, As to the change which took place in the operations of war, it may be obferved, that the perfect bero of antiquity was fuperior to fear, hut he made ufe of every artifice to annoy his enemy : impelled by animufity and homile pallion, like the favage in the American woods, he was only ansious of attaining his end, without regarding whether fraud or furce were the means. But the true knight or modem hero of the midulle ages, who feens in all his rencounters to have had his cye or the judicial combat or judgement of God, had an cqual contempt for ftratagem and danger. He didained to take advantage of his enemy : be defired only to lee him, and to combat him upon equal terms, truflisg that heaven would declare in behalf of the juft; and as he profeffed only to vindicate the caufe of relngion, of injured beauty, or oppreffed innocence, he was further confirmed in this enthufatlic opinion by his own heated imagination. Strongly perfuaded that the decifon mult be in his favour, he forght as if under the intluence of divine infuiration rather than of military ardour. Thus the fyltem of chivalty, by a fingular combination of mamiers, blended the heroic and fanctified characters, united devotion and valour, zeal and gallantry, and reconciied the love of God and of the ladies.

Chiralry flourifhed mof during the time of the croifades. From thele holy wars it followed, that new fraternities of knighthood were invented : hence the knights of the Holy Sepulchre, the Hofpitallers, 'I'cmplars, and an infinite number of religious orders. Various other orders were at length inflituted by fovereign princes: the Gaiter, by Edward III. of England; the Golden Flecce, by Philip the Good, duke of Burgundy ; and St Michael, by Louis XI. of France. From this time ancient chivalry declined to an empty name; when fovereign princes eftablilhed regular companies in their armies, knights bannerets were no more, though it was itill thought an honour

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Knighe to be dubbed by a great prince or rictorious hero; and all who profefled arms without knighthood affumed the title of cfouire.

There is fearce a prince in Europe that kas not thought fit to inftitute an order of knighthood; and the finple title of knichi, which the kings of Britain confer on private fubjests, is a derivation from ancient chivalry, although very remote from its fource. See Knighi-B.ichelus.

Knigut-Service (fervibium mitilare, and in law French chivalry;) a fpecies of Tenure, the origin and nature of which are explained under the articles Chivalry, and Feoda! Syrtem, N•

The knights produced by this tenure differed moft tfentially from the kniglits defribed in the preceding aricle; though the difference feems not to have been aceurately attended to by authors (1). The one elafs of knights was of a high antiquity: the other was nut heard of till the invention of a fee. The adorning with arms and the blow of the fisord made the at of the creation of the ancient knighs: the new knight was conlituted by an inveltment in a piece of land. The former was the member of an order of dignity which had particular privileges and diftinetions; the latter was the receiver of a feudal grant. Knighthood was an honour; knight fervice a tenure. The fift communicated fplendour to an army; the !atl gave it frength and numbers.The knight of honour might ferve in any fiation whatever; the knight of tenure was in the rank of a fot. dier.-It is true at the fame time, that every noble
and baron were linights of tenure, as they held their lands by knight fervice. But the number of fees they pofiefed, and their creation into rank, feparated them widely from the fimple individuals to whom they geve out grants of their lands, and who were merely the huights of tenure. It is no lel's true, that the fovereign, without conferring nobility, might give even a fingle fee to a tenant; and fuch valfals in capile of the crown, as well as the valfals of fingle fees from a lubject, were the mere knights of tenure. But the former, in refpect of their holding from the crown, were to be called to take upon thomfelves the knighthood of honour; a cordition in which they might rife from the ranks, and be promoted to offices and command. And as to the raffals in copite of the crown who had many fees, their wealth of itfelf futheiently dillinguifhed them beyend the flate of the mere knights of tenure. In fact, they pollefled an authority over men who were of this laft defcription; for, in proportion to their lands were the fees they gave out and the kniglats they commanded.

By the tenure of knight fervice the greateft part of the lands in England were holden, and that prircipally of the king in capite, till the middle of the laft century; and which was created as Sir Edward Coke exprefsly teltifies, for a military purpofe, viz. for de-Bhagfo fence of the realm by the king's own prit.cipal fuh-Cisamenio. jects, which was judged to be much better than to trult to hirelings or foreigners. The defeription here giver is that of knight fervice proper, wlich was to attend the ling in his wars. There "sere alio fome $3 \mathrm{O}_{2}$
othe:
(A) "The terms knight and chivaler (Dr Stuart + obferves), denoted both the knight of honour and knight + Vicw of of icinure; and chicalry was ufed to exprefs both knighthond and knight-fervice. Hence, it has proceeded, that Saziety in thele perfons and thefe ftaies have been confounded. Yet the marks of their difference are foflrong and point- Europe, $\mathbf{c d}$, that one mult wonder that writers fhould milake them. It is not, however, mean and common compilers $\mathrm{P} 34^{4}$. only who have been deceived. Sir Edward Coke, notwithttanding his dilinguining head, is of this number. When effimating the value of the knight's fee at 201 . per annum, he appeals to the ftatute de miluibur, an. 1 Ed. II. and, by the fenfe of his illufration, he conceives, that the knights alluded to there were the fame with the poffefors of knights fees: and they, no doubt, had knights fees; but a knight's fee might be enjoyed not only by the tenants in capize of the crown, but by the tenants of a vallal, or by the tenants of a fab-vafal. Now, to thefe the flatute makes no allufion. It did not mean to annex knighthood to every landholder in the kingdom who had a knight's fee; but to encourage arms, by relpiring the tenants in conpite 0 the crown to take to them the dignity. He thus confounds knighthosd and the knight's fee. Coke on Limke10.7, p. 69.
"If I am not deceived, Sir William Black fone has fallen into the fame miftake, and las added to it. Speaking of the knights of honour, or the equites aurati from the gift fpurs they wore, he thus expreffes himfelf: - They are allo called, in our law, militics, becaufe they formed a part, or indeed the whole, of the royal army, ' in virtue of their feodal tenures; one condition of which was, that every one who held a knight', fee (which in Henry Il.'s time amounted to 201. per annun:), was obliged to be knighted, and attend the king in his war:, - or fined for his noncompliance. The exertion of this prerogative, as an expedient to raife money. in the reign

- of Charles 1. gave great offence, though warranted by lav, and the recent example of Quen Elizabe!h: but
- it was, at the Reforation, together with all other military branches of the feodal law, abolifhed ; and this kind 'of knighthood has fince that time fallen into great difrepute.' Book I. ch. 12.
"After what has been faid, 1 need hardly obferve, that this learned and able writer has confounded the knight of honour and the Enight of tenure; and that the requiftion to take knighthood was not made to cicry poiffifor of a knight's fee, but to the tenants of knights fees held in capite of the crown, who had merely a fufficiency to maintain the dignity, and were thence difpofed not to take it. The idea that the whole force of the royal army confifed of kiights of hunour, or dubbed knights, is fo extraordinary a circumfance, that it might have flown of itfelf to this eminent writer the fource of his errer. Had every fuldier in the feusdal army received the invefiture of arms? could he wear a feal, furpals in filk and drefe, ufe enfigns armorial, and enjoy all the other priviteges of hnighthood? But, while 1 hazard thefe remarke, my reader will obferve, that it is with the gre.:eft deference I di.icnt from Sir William Blackfone, whofe abilities are the object of a noof general and delerved admiration."


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Knight.
other fpecies of knight fervice; fo called, though improperly, becaufe the fervice or render was of a free and honourable nature, and equally uncertain as to the time of rendering as that of knight fervice proper, and becaufe they were attended with fimilar fruits and confequences. Such was the tenure by grand Jeijeanty, per magnum fervitium, whereby the tenamt was bound, inftead of ferving the hing generally in his wars, to do fome fpecial honorary fervice to the king in perfon; as to carry his banner, his fword, or the like; or be his butler, champion, or other officer, at his coronation. It was, in moft other refpects, like knight fervice, only he was not bound to pay aid or efcuage; and when tenant by knight fervice paid five pounds for a relief ou every knight's fee, tenant by grandferjeanty paid one year's value of his land, were it much or little. Tenure by cornage, which was to wind a horn when the Scots or other enemies entered the land, in order to warn the king's fubjects, was (like other fervices of the fame nature) a fpecies of grand ferjeanty.

Thefe fervices, both of chivalry and grand ferjeanty, were all perfonal, and uncertain as to their quantity or duration. But the perfonal attendance in knight fervice growing troublefome and inconvenient in many refpects, the tenants found means of compounding for it, by fritt fending others in their fead, and in procefs of time making a pecuniary fatisfaction to the lords in lieu of it. This pecuniary fatisfaction at laft came to be levied by affefiments, at fo much for every knight's fee; and therefore this kind of tenure was called foutegium in Latin, or ferviturn fouti; foutum being then a well-known denomination of money: and in like manner it was called, in our Norman French efcuage ; being indeed a pecuniary inltead of a military fervice. The firft time this appears to have been taken, was in the 5 Hen. II. on account of his expedition to Touloufe; but it foon came to be fo univerfal, that perfonal attendance fell quite into difufe. Hence we find in our ancient hitories, that, from this period when our kings went to war, they levied feutages on their tenants, that is on all the landholders of the kingdom, to defray their expences and to hire troops: and thefe alfeliments in the time of Henry 11. feem to have been made arbitrarily, and at the king's pleafure. Which prerogative being greatly abufed by his fucceflors, it became matter of national clmour; and King John was obliged to confent, by his magna charta, that no feutage thould be impofed without coufent of parliament. But this claufe was omitted in lis fon Henry 111.'s charter ; where we only find, that feutages or cicuage flould be taken as they were ufed to be taken in the time of Henry 11. ; that is, in a reafonable and moderate manner. Yet afterwards, by ftatute 25 Edw. I.c. 5 . and 6. and many fubfequent Atatutes, it was enacted, that the king thould take no aids or tafls but by the common afient of the realm. H ace it is held in our old books, that efcuage or fcutage could not be levied but by confent of parliament; fuch fcutages being indeed the ground-work of all fueceeding fubfidies, and the land tais of later times.

Since, therefore efcuare differed from knight fervice in nothing but as a compenfation difiers from actual fervice, kniglit fervice is frequently confoundal with
it. And thus Littleton muft be undertood, when Knight he tells us, that tenant by homage, fealty, and ef. cuage, was tenant by knight fervice: that is, that this tenure (being fubfervient to the military policy of the nation) was refpected as a tenure in chivalry. But as the actual fervice was uncertain, and depended upon emergencies, fo it was necellary that this pecuniary compenfation flould be equally unceriain, and depend on the aildefiments of the legillature fuited to thefe emergencies. For had the efcuage been a fettled invariable fum, payable at certain times, it had been neither more nor lefs than a mere pecuniary rent; and the tenure, intead of knight fervice, would have then been of another kind, called soccage.

By the degenerating of knight fervice, or perfonal military duty, into efcuage or pecuuiary affelinents, all the advantages (either promifed or real) of the feodal conflitutions were delltroyed, and nuthing but the hardithips remained. Intead of forming a national militia compofed of barons, knights, and gentlemen, bound by their interelt, their honour, and their oaths, to defend their king and country, the whole of this fyftem of tenures now tended to nothing elfe but a wretched means of raifing money to pay an army of occalional mercenaries. In the mean time the families of all our nobility and gentry groaned under the intolerable burdens (which in confequ-nce of the fiction adopted after the conqueft) were introduced and laid upon them by the fubtlety and fineffe of the Nornan la:wyers. For, befides the fcutages to which they were liable in defect of perfonal attendance, which however, were affeffed by themfelves in parliament, they might be called upon by the king or lord paramount for aids, whenever his eldeft fon was to be knighted, or his eldelt daughter married; not to forget the ranfom of his own perfon. The heir, on the death of his anceftor, if of full age, was plundered of the firf emoluments arifing from his inheritaace, by way of relief and primer feifon: and if under age, of the whole of his effate during infancy. And then, as Sir Thomas Smith very feelingly complains, "when he came to his own, after he was out of ward/hip, lis woods decayed, houfes fallen down, flock watted and gone, lands let forth and ploughed to be barren," to make amends, he was yet to pay half a year's proits as a fine for fuing out his livery; and alfo the price or value of his marriage, if he refufed fucl wife as his lord and guardian had bartered for, and impoled upon him ; or twice that value, if he married another woman. Add to this, the untimely and expenfive honour of knighthoor, to make his poverty more completely fplendid. And when, by thefe deductions, his fortune was fo fhattered and ruined, that perhaps he was obliged to fell his patrinony, he had not even that poor privilege allowed him, without paying an exorbitant fine for a licerfe of alienation.

A flavery fo complicated and fo extenfive as this, called aloud for a remedy in a nation that boatled of her freedom. Palliatives were from time to time applied by tucceffive ats of parliaments, which affuaged fome temporary grievances. Till at length the humanity of King James I. confented, for a proper equivalent, to abolifh them all, though the plan then procceded not to effect ; in like manner, as he had formed a. Ccheme, and beyan to put it irr enecution, for remov-


K iv I [
:night. ing the feodal grievance of heritable j-rifaii\&ions in Scotland, which has fince been purfued and efiected by the Itatute 20 Geo . II. C 43. King James's plan for exchanging our military tenures feems to have been nearly the fame as that which has been fince purfued; only with this diference, that by way of compenfation for the lufs which the crown and other lords would furtain, an amual fee-farm rent thould be fetted and infeparably amexed to the crown, and affured to the inferior lords, payable out of every knight's fee within their refpective feignories. An expedient feemingly much better than the hereditary excife which was afterwards made the principal equivalent for thefe conceffions. For at length the military tenures, with all their heavy appendages, were deltroyed at one blow by the flatute 12 Car. II. c. 24. which enacts, " that the court of ward or liveries, and all wardhips, liverics, primer feifins, and oufterlemains, values and forfeitures of marriages, by reafon of any tenure of the king or others, be totally taken away. And that all fines for alienations, tenures by homage, knights fervice, and efcuage, and alfo aids for marrying the daughter or kniehting the fon, and all tenures of the king in capite, be likewife taken away. And that all forts of tenures, held of the king or others, be turned into free and common foccage; fave only tenures in frankalmoign, copyliolds, and the honorary fervices (without the liavilh part) of grand ferjeanty." A tatute which was a greater acquifition to the civil property of this kingdom than even magna charta itfelf: fince that only pruned the luxuriances that had grown out of the military tenures, and thereby preferved them in vigour: but the flatute of King Charles extirpated the whine, and demolifled both roat and branches.
Kilghts-Errant. During the prevalence of chivalry, the ardour of redreiting wrongs feized many knights fo powerfully, that, attended by elquires, they wandered about in fearch of ebjects whofe misfortunes and milery required their affiftance and fuccour. And as ladies engaged more particularly their attention, the relief of unfortunate damfels was the achievement they moft courted. This was the rife of knights-errant, whofe adventures produced romance. Thefe were originally told as they happened. But the love of the marvellous came to interfere; fancy was indulged in her wildelt exaggerations; and poetry gave her charms to the moft monftrous fictions, 2. © Fenes the molt unnatural and gigantic. See

## Knight.

кimgat-Bachelor. See Bachelor.
Kinght-Baronet.
Kivights of the Shire, or Knights of Parliament, are twi gentlemen of worth, chofen on the king's writ in pleno comitatu, by fuch of the freeholders of every county as can expend fos. per annum, to reprefent fuch county in parliament. Thefe, when every man who held a knight's fee in capite of the crown was cuftomarily conftrained to be a knight, were of neceflity to be milites gladio cincti, for fo the writ runs to this day; but now cuftom admits efquires to be chofen to this office. They mult have at leaft 5001 . per annum; and their exnences are to be defraved by the county, though t his re feldom now required.

Kinght-1Inrfal, an officer is the king s houfehold, r:ho has jurididion and cognizance of any tranf-

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grefion within the hing's houfthold a:nd verge : as alu of contracts made thicre, whereof one of the houfe is party.
$\therefore: 81$ 。
Knight.
h od.

Kntght-Fi/b. See Eques, 1chmyonogy Index.
Keights, in a thip, two hort thick picces of wood, commonly carved like a man's head, having four thivers in each, three for the haulyards, and one for the top to rua in : one of them ftands fat bolted on the beams abaft the foremath, and is therefore called the foreknight; and the other, flanding abaft the mainmaft, is cailed the main-knight.

KNIGH'IHOOD, a military order or honour, or a mark or degree of ancient nobility, or reward of perfonal virtue and merit.

There are four kinds of knighthood ; military, regular, honorary, and focial.

Ailitary Knlghthood, is that of the ancient knights, who acquired it by high feats of arms. They are called milites, in ancient charters and titles, by which they were diftinguilthed from mere bachelors, \&c. Thele knights were girt with a fivord, and wore a pair of gilt fputs; whence they were called equites nurati.

Kni-hthood is not hereditary, but acquired. It does not come into the world with a man like nobility; nor can it be revoked. The fons of kings, and king, themfelves, with all other fovereigns, heretofore had knighthood conferred on thern as a mark of honour. They were ufually knighted at their baptifm or marriage, at their coronation, before or after a battle, \&c.

Regular Kntghthood, is applied to all military orders which profefs to wear fome particular habit, to bear arms againft the infidels, to fuccour and affit pilgrims in their paflage to the Holy Land, and to ferve in hofpitals where they fhould be received; fuch were the knights templars, and fuch ftill are the knights of Malta, \& cc.

Homorary Knighthoon, is that which princes confer on other princes, and even on their own great miniflers and favourites; fuch are knights of the Garter, Bath, St Patrick, Nova Scotia, Thifle, \&c. See thefe articles; and for a reprefentation of their different infignia, fee Plate CCLXXXVIII.

Socinl Knighthood, is that which is not fixed nor confirmed by any formal inflitation, nor requlated by any lafting flatutes; of which kind there have many orders been ereated on occafion of fations, of tilts and tournaments, mafquerades, and the like.

The abbot Bernardo Juttiniani, at the beginning of his Hillory of Kinglthood, gives us a complete catalogue of the feveral orders: according to this computation, they are in number 92. Favin has given us two volumes of them under the title of Theatre d'Hionnewr et de Chervalerie. Menenius has publihed Delicie Equejtrium Ordimum, and Andr. Mendo has written De Ordimibus Militaribus. Beloi has traced their original; and Geliot, in his Armorial Index, has given us their indicutions. To thefe may be added. Father MeneAtricr de la Cheralerie Ancionne et Moderne, Michieli's Trefor Militinire, Caramuel's Theolngia Regolare, Mireens's Origines Equeflrium five M:Itarium Ordinum: but above all, Jultinian's Ifjforie Chronologiche dell' Origine de g/' Ordine Milititari, e di tutte le Religione Cavalerefclie; the cdition which is fullell is that of Venice in : 692, in two vols Solio.

## K N O $\left[4 \mathrm{~S}^{\mathrm{S}}\right] \quad \mathrm{K} \mathrm{N}$ O

Kagnton KiviGHTLOW Hill or Cross, which gives
Kuct. name to a hamlet in Warwickihirc, flands in the roud from Cuventry to London, at the entrance of Jummore

Heath. About 40 towns in this hamlet, whicls are $\int_{p}$ ecificd by Dugdale, are obliged, on the forfeiture of 3os. and a white bull, to pay a certain rent to the lurd of the hamlet, called urothmoney, or fuarf-pemy; which mult be depofited every Martinmas div in the morning at this crofs before funcile; when the pary paying it muft go thrice about the crofs, and lay tle wroth-money, and then lay it in the hole of the faid crofs before gind witnels.

KNIGHTON, a well built town of Radnorflire in South VYales, 155 miles from London. It is pleafantly fituated on an elevation rifing from a tmall river, which divides this part of Wales frorn Shromhire. It carries un a confiderable trade, and has a market and a fair.

KNIGH1'SBRIDGE, a village of Middle $e x$, and the firt rillage from London on the great weftem road. It lies in the parifhes of St Margaret's 'Weftminter, and St George by Hanover Square ; and has a chapel, which is neverthelefs indepeadent. At the erirance of it from London flands that noble infirmaty for fick and wounded, called St George? Hofsital, erected and maintained by the contributions of our nobility and gentry, of whom there are no lefs than 300 grovernore. In the centre of this village, there is a fabric lately erected, where is carried on one of the moit confiderable.manufactures in England for painting floor-cloths, \&c.

KNOCTOPHER, a borough and market town of Jreland, in the county of Kilkenny and province of Leinfter, 63 miles from Dublin. Before the union, this town returned two members to the Irifh parliaraent.

KNOLL, a term ufed in many parts of the kingdom for the top of a fmall hill, or for the bill itfelf.

KNOLLES, Ricifard, was born in Northamptonfhire, about the middle of the 16 th century, and educated at Oxford, after which he was appointed mater of the free-fchool at Sandwich in Kent. He compofed Grammaticue Lalince, Giracis, et Hebraice, compendium, cum radicitus, London 1606; and fent many excellent fcholars to the univerfittes. He alfo fpent 12 years in compiling a lititory of the Turks; which was firft printed in 1610 . It is called, The general hifiory of the Turks, from the firft beginning of that nation to the rifing of the Ottornan family, \&x. He died in 1610 , and this hillory has been fince continued by feveral hands : the belt continuation is that by Paul Ricaut conful at Smyrna, folio, London 1680 . Knolles wrote allo, "The lives and conquefls of the Ottoman kings and emperors to the year $\$ 610 ;$ " which was not printed till after his death in 1621 , to which time it was continued by another hand; and lafly, "A brief difcourfe of the greatnefs of the Turkifh empire, and wherein the greatnefs of the flength thereof confifteth," \& $c$.

KNOT, a part of a trec, from which fhoot out branches, roats, or even fruit. The ufe of the knots is, to frengthen the ftem; they Cerve allo as fearces, to filtrate, purify, and refine the juices railed up for the nourinment of the plant.

Korots of a Rofic, among feamen, are dilinguifhed
into three kinds, viz. whole knot, that made fis with the lays of a rope that it cannot hip, terving for lheets, tachs, and toppers: bowdine knet, that fo nomly made and fattened to the cringles of the fails, that they m:it Breals or the fail fplit beore it llips? and thecp-1hank krut, that made by thorteniag a rope without curcing $\mathrm{i}^{2}$, which may be padetity loutened, and the rupe not the worte for it.

Knoss of the Los-line, at fea, are the divifions of it. Sce tle arcicle I.cG.

Kiot. See Tringe, Orvithology Index.
Ńnot Grafs, or Biport. See Pomygonum, Botany Intex.

KNOTVTSSORD, a town of Cheflire, near the Merley, 184 miles from London, is divided into the upper and lower towns by a rivulet called Bickern. In the tormer is the church; and in the latter is a chapel of eat., the market and town-houfe.

KNO'TTINGLET, a torin in the weft riding of Yorkfire, on the Aise near Ferrybridge, is noted for its trade in lime. The ftones of which it is made are dug up plentifully at Elmet, and here burnt; from whence it is conveyed at certain Ceafons in great quarrtities to Wakefield, Sandal, and Standbridge, for fale, and fo carried into the weitern parts of the county for manure.

KNOUT, the name of a punihment inflicted in Rufia, with a kind of whip called knout, and made of a long ftrap of leather prepared for this purpole. With this whip the executioners desterounly carry off a flip of fhin from the neck to the bottom of the back laid bare to the waift, and repeating their blows, in a little while rend away all the fkin of the back in parallel ftripes. In the common knout the criminal receives the $l_{d}$ fhes furpended on the back of one of the executioners: but in the great knout, which is generally ufed on the fame occafoons as racking on the wheel in France, the criminal is raifed into the air by means of a pulley fixed to the gallows, and a cord faftened to the two wrilts tied together; a piece of wood is placed between his two legs alfo tied together; and another of a crucial form under his breaft. Sometimes his hands are tied behind over his back; and when he is pulled up in this pofition, his thoulders are diflocated. The executioners can make this punifhment more or lefs fevere; and it is faid, are fo dexterous, that when a criminal is condemned to die, they can make hinn expire at plealure either by one or feveral lathes.

KNOWLEDGE, is defined by Mr Locke to be the perception of the connexion and agreement or difagreement and repugnancy of our ideas. See Meraphysics and Logic.

KNOX, Jorn, greatly diftinguifhed by the part he took in the reformation in Scotland, was born in 1505 , at Gifford near Haddington, and eclucated at the unmeriity of St Andrew's, where he took a degree in arts, and commenced teacher very early in life. At this time the new religion of Martin Luther was but little known in Scotland; Mr Knox therefure at firf was a zealous Roman Catholic: but attending the fermous of a certain Black friar, named Guialliam, he began to waver in his opinions; and afterwards converfing with the $12-$ mous Wifhart, who in 1544 canse to Scotland with the commiffoners fent by Henry VIII. lee renounced the Romifh religion, and became a zealous reformer. Be-

"or. ing appointed tutor to the fons of the lairds of Omi(nu then and iongniddery, te began to infruat them in the principies of the ['rotelant religion; and on that account was fo violently perfecuted by the bilhop of St Andrews, that with his two pupils he was oblizad in the jear $15+7$ to take thelter in the cafile of that place. But the caille was Lefieged and taken ty 21 French gallejs. He continucd a prifoner on board a gallsy tivo years, nemely, till the latter end of the year 1549; when, being fet at liberty, he landed in Eingland, and having obtained a licenfe, was appointed preacher, fril at Rerwick, and atterwards at Newcaflic. Serype conjectures that in 1552 he was appointed chaplain to Elward VI. He certzinly obtained an annual pention of tol, and was oucred the living of Al!lailows in Iondon; which he refufed, nut choofing to conform to the iniurgy.

- Som after the acceliion of Cueen Mary, he retired in Geneva ; whence, at the command of John Calvin, lie re:noved to Francfort, where lie preached to the exiles: but a difference arifing on account of his refuling to read the Englifh liturgy, he went back to Gcneva; and from thence in 1555 returned to Scotland, where the reformation had made conaiderable progrets during lis ablence. He now travelled from place to place, preaching and exhorting the people with unremitting zeai and refolution. About this time ( 1556 ), he wrote a letier to the queen regent, eamefly entreating her to hear the Proteliant doctrine; which letter the treated with contempt. In the fame year the Englin Calvinifts at Geneva, invited Mr Knox to refide among them. He accepted their inviation. Immediately after his dep:sture from Sco:land, the bilhop funmored him to appear, and he not appearing, condemned him to death for herefy, and burned his effigy at the crofs of Edinburgh.

Our reformer continued abroad till the year 1559, during which time he publimed his "Firt Blant againt the muntrous Regiment of Wumen." Having now returned to Scoiland, he refumed the great work of reformation wit's his ufual ardour, and was appointed minifter at Edindurgh. In 1561 Qucen Mary arrived from France. S'ic, it is well known, was bigotted to the religion in which the had been educated; and on that account was expofed to continual infults from bier reformad furjects. Mr Knox himfelf frequently infulted ber from the pulpit; and when admitted to her prefence, regardlefs of her fex, her beauty, and her high rank. benaved to her with a moit unjuftifiable freetom. In the year 1571 our reformer whe obliged to leave Tdinburgh, on account of the confufion and danger from the oppolition to the earl of Lenox, then regent; but he returned the following ycar, anit refumed his panoral functions. He dicd at Edinburgh in Norember 1572 , and was lomried in the churchyard of $x$ Giles's in that city.-Whis iliftory of the Reformation was printed with his other works at E.limburgh i) $1584,1586,164+1,1732$. He publifhed many other pieces; and feveral more are preferved in Calderrood's Hiftory of the Church of Scotland. He left alfo a confiderable number of manufcripts, which in 1732 were in the poffefion of Mr W'oodrow, miniller of Ealtwoort.

As to his chara ter, it is eafily undertood, notwith. fanding the extrome di.fimilitude of the two portraits
dra:n by Ponifh and Calrinitical peariis. Accordies to the firlf, he was a devil; according to the latter, an angel. The fullowing character is drawn by Dr Roberton. "Zeal, irtrep ility, dilintercftednefs. were vistues that he pofleffed in an eminent degrec. He wols acguainted too with the lemmeng cultivated in that age; and excelled in that fpecies of eluyunce which is calculated to roufe and to inthame. Itis maxims, howerer, were often too fevcte, and the impetuonity of his tomper excelfive. Rigid and uncomplying, he sowed no indulgence to the infumities of others. Recratdef of the diftinctions of rank and character, lie uttered his admonitions with an acrimony and rehemence more apt to irritate than to reclaim; and this often betrayed him into indecent expreffions, with refpect to Quecn Mary's frerfon and conduct. Thofe very qualities, however, which now render his character lefs amiable, fitted him to be the inftrument of Providence fo: advancing the Reformation among a fierce people, and enabled him to face dangers, and to furmount oppolition, from which a jecton of a more gentle fpirit would have been apt to hlirink back. By an unwearied application to fludy and to bufinefs, as well as by the frequency and fervour of his public difcourfer, he had wom out a conftitution naturally ftrong. During a lingering illuch, he dilcoverd the utmofl fortitude; and met the amoroach of death with a magnanimity infeparable from his charafter. He was contantly employed in acts n! d. votion, and comforted bimfilf with thofe profpects of immortality, which not only preferve good men from defponding, lut fill them with exultation in their laft moinents. The earl of Morton, who was prelent at his funeral, pronounced his eulogium in a few words, the more honourable for Knov, as they came from one whom he had often cenfured with peculiar feverity; "Here lies he who never feared the face of man."

KNOXIA, a genus of plants belonging to the tetrandria calls; and in the natural method ranking u:1der the $47^{\text {th }}$ order, Stcllatie. See Botany Index.

KNUl'ZEN, Matthias, a naive of Holftein, the only ferfon en record who openly profeffed and taught atheifm. It is faid be had about 1000 difciples in different parts of Germany. They were called Cunfcienciaries, becaufe they afferted there is no other God, no other religion, no other lawful magiftracy, but confcience, which teaches every man the three fundamental principles of the law of nature:-To hurt nobody, to live honettly, and to give every one his duc. Sevcral copies of a letter of his from $R$ ome were fpread aloroad, containing the fubftance of his fyltem. It is to be found entire in the lat edition of Micrelius.

KOEDOE. See Capra.
KOEI-TCHEOU, a prowince of Chima, and one of the fmalleft in the ondire. On the fouth it has Quang-fi, on the calt Hou-quang, on the north Se-tchuen, and Yun-nan on the weft. The whole country is almoft a defert, and covered with inaccofible mountains: it riay juttly be called the Siberta of China. 'Tlhe peopie who inhabit it are mountaincers, accurboned to independence, and who feem to form a feparaie nation: they are no lefs ferocious than the livage anmals among whicla they live.-The mandarins and goveraors who are fent to this province are fometimes difgraced noblemen, whom the emperor does not think proper to difcard entirely, either on account of their alliances, or the forvices

## $\mathrm{K} O \mathrm{E} \quad[490] \quad \mathrm{K}$ O N

Finenfer whil they have rendered to the fate: numerous garritoms are intrufted to their cha:ge, to overawe ti.e inlablitants of the country; but thefe troops are found infullicient, and the court defpairs of being ever able thoroughly to fuodue thele untractable mourtainees.-Frctuent attempts have been made to reduce them to obedience, and new forts have from time to time been erected in their country ; but the people, who are not ignorant of thofe defigns, keep themfelves thut upanong their mountains, and feldom ilfue forth but to del?roy the Chinele works or ravage their lands. Neither filk ftufls nor cotton cloths are manufactured in this province; but it produces a certain herb much refembling our hemp, the cloth made of which is ufed for fummer drefles. Mines of gold, filver, quick!ilver, and copper, are found here; of the laft metal, thofe fmall pieces of money are made which are in common circulation throughout the empire.-Koei-tcheou contains 10 cities of the firt clafs, and 38 of the fecond and third.

KCEMPFER, ENGElbert, was born in 1651 at Lemgow in Weltphalia. After ftudying in Several towns, he went to Dantzick, where he gave the firlt public fpecimen of his proficiency in a differtation De mnjeflatis divifone. He then went to Thorn; and from thence to the univerfity of Cracow, where he took his degree of doctor in philofophy ; after which he went to Koningfberg in Pruffia, and ftaid there four years. He next travelled into Sweden, where he foon began to make a figure, and was appointed fecretary of the embafly to the fophi of Perfa. He fet out from Stockholm with the prefents for that emperor; and went through Aaland, Finland, and Ingermanland, to Narva, where le met Mr Fabricius the ambaffador, who had been ordered to take Mofcow in his way. The ambaflador having ended his negociations at the Rufian court, fet out for Perfia. During their itay, two years, at Ifpahan, Dr Kompfer, whofe curious and inquifitive difpofition fuffered nothing to efcape him unobferved, made all the advantages poffible of remaining fo long in the capital of the Perlian empire. The ambaflador, towards the clofe of 1685 , preparing to return into Europe, Dr Kœmpfer chofe rather to enter into the fervice of the Dutch Eaft India Company, in quality of chief furgeon to the Heet, then cruifing in the Perfian gulf. He went aboard the fleet, which, after touching at many Dutch fettlements, came to Batavia in September 1639. Dr Kœmpfer here applied himfelf chietly to natural hifory. Hence he fet out for Japan, in quality of a phyfician to the embaffy which the Dutch Eaft India Company fend once a year to the Japanefe court. He quitted Japan to return to Europe in 1692 . In 1694 he took his degree of doctor of phyfic at Leyden; on which occafion he communicated, in what are called Inaugurnl Thefes, ten very fingular and curious obfervations made by him in foreign countries. He intended to digef his memoirs into proper order ; but was prevented, by being made phyfician to the count de Lippe. He died in 1716. His principal works are, 1. Amentates Exoticu, in 4 to ; a work which includes many surious and ufeful particulars in relation to the civil and natural hiftory of the countries through which he paffed. 2. Herbarium Ultra-Gangeticum. 3. The hincry of Japan, in Gernian, which is very curious and much e! eetreet; and for which the public is indebted to tlic late Sir Mans Sloane, who puichafed for a con-
fiderable fum of money all our author's carionties, both natural and artificial, as likewife all his drawings and manufeript memoirs, and prevailed with the learned Dr Scheuchzer to trandate the Japanefe hitory into Englifh.

KCEMPFERIA. See Kempferia.
KOENIGIA, a genus of plants belonging to the triandria clafs. See Botani Index.

KONGSBERG, a town of Norway, belonging to Denmark, and celebrated for its filver mines, whofe produce has ueen confiderably exaggerated by molt of the travellers that have publifhed on this fubject. The town, which flretches on both fides the river Lowe, contains about 1000 houfes, and including the miners $60=0$ inhabitants. The mines, which lie about two miles from the town, were firlt difcovered and worked during the reign of Chriftian IV.; and of their prefent fate the following account is given by Mr Cose * There are 36 mines now working; the deepelt whereof, called Segen-Gotses in der North, is 652 feet perpendicular. The matris of the ore is the faxum of Linnæus.y The filver is extracted according to the ulual procefs, either by fmelting the ore with lead or by pounding. The pure filver is occafionally found in fmall grains and in fmall pieces of different fizes, feldom weighing more than four or five pounds. Sometimes, indeed, but extremely rare, maffes of a confiderable bulk have been difcovered; and one in particular which weighed 409 marks, and was worth 3000 rix-dollars, or 6col. This piece is Atill preferved in the cabinet of curiofities at Copenhagen. Formerly thefe mincs produced amually 350,000 risdollars, or 70,0001 .; and in 5769 , even 79,002l.; at prefent they feldom yield above from $4,4,0001$. to 50,0001 . Formerly above 4000 men were neceflary for working the mines, fmelting and preparing the ore; but a ferv years ago 2400 miners were removed to the cobalt works lately eltablifhed at Foffum, and to other mines; and the number is now reduced to 2500 . By thefe and other reductions, the expence, which was before eftimated at 57601 . per month, now amounts to only 44001. or about 52,8001 . per annum. Yet even with this diminution the expences generally equal, and fometimes exceed the profits. Government, therefore, draws no other advantages from thefe mines, than by giving employment to fo many perfons, who would otherrife be incapable of gaining their livelihood, and by receiving a certain quantity of Specie, which is much wanted in the prelent exhaufted ftate of the finances in Denmark. For fuch is the deficiency of fpecie, that even at Konglberg itfelf change for a bank note is with dificulty obtained. The miners are paid in fmall bank notes, and the whole expences are defrayed in paper curtency. The valuc of 13,000 rixdollars, or 26001 . in block filver is annually fent to Copenhagen ; the remainder of the ore is coined in the mint at Konglberg, and transferred to Copenhagen. The largeft piece of money now flruck at Konglierg is only eight dhillings or fourpence.

KONIG, Gforge: Matthias, a learned German, born at Altorf in Franconia in 1616. He becane profeffor of poetry and of the Greek tongue there, and librarian to the univerfity; in which laft office he fucceeded his father. He gave fereral public fpecimens of his learning; but is principally known for a Bic-
graphical

## $\mathrm{K} O \mathrm{R} \quad[48 \mathrm{r}] \quad \mathrm{K} 0 \mathrm{~T}$

mistein graphical Dictionary, entitled, Bibliohluca veius et nova, $4^{10}$, Altorf, 1674: which, though it is very defective, is ufeful to biographers. He died in 1699.

KONIGSTEIN, the capital of a county of the fame name in Germany. It is I I miles north-weft of Francfort on the Maine, and 30 miles north-eaft of Mentz.

Kosigstein, is alfo the name of a town in Bavaria, and of one in Sasony.

KONINGSBERG, a town of Poland, and capital of Regal Pruffia, with a magnificent palace, in which is a hall $27+$ feet long and 59 broad without pillars to fupport it, and a handfome library. It is about five miles in circumference; and, including the garrifon of 7000 men, contains 60,000 inhabitants. The townhoufe, the exchange, and the cathedral church, are all very fine ftructures. The tower of the caftle is exceeding high; and has 284 fteps to go to the top, from whence there is a very diftant profpect. There are 18 churches in all; of which 14 belong to the Lutherans, three to the Calvinitts, and one to the Pa pilts. It 1tands on the Pregel, a navigable river which flows from the north-weftern provinces of Poland, and here falls into the ealtern extremity of the Frifche-Haf, an inlet of the Baltic. No hips drawing more than feven feet water can pafs the bar and come up to the town; fo that the large veffels anchor at Pillau, a fmall tomn on the Baltic, which is the port of Koningfberg; and the merchandife is fent in fmaller veffels to this place. Its trade is very confiderable.-Koning foerg contains an univerlity founded by Albert of Brandenburg. According to the original endowment there were 40 profeflors; but their number is now reduced to 56 . Each profeffor receives a falary o+ about 501 . per annum, which may be increafed by private lectures. $\ln 1775$, the univerfity contained 800 ftudents, of whom 200 are lodged and boarded at the expence of the crown. There are three public libraries in the town, the royal or univerfity library, the town library, and the Wallenrodt litrary, fo called becaufe it was given by Martien ron Wallenrodt, in 1650. E. Long. 35. N. Lat. 54. 43.

KORAN, or Alcoran. See Alcoran and MaHOMETASISM.

KORAQUAS, a tribe of Hoitentots inhabiting a dill rict in the fouth of Africa, on the confines of the Nimiqua country. The people are much taller than the other Hottentots of the colonies, though they evidently appear to be defcended of the fome race, haring the fame language and cuntoms with their neighbours the Nimiquas, who are undoubtedly of the fame extraction. Like other favage tribes, the Koraquas are ever ready to pilfer, and appropriate to their own ufe whatever they find pleafing, or fuited to their purpofes. They attempted to carry off fome of M. Vaillant's effeets, even before his face, and he was obliged, either to watch over or depofit them in fome place of fafety, in order to prevent their rapacity.

The exceffive drynefs of the country renders fprings extremely rare ; but to fupply this defect the inhabitants dig in the earth a kind of cifterns, to which they gradually defrend by means of fteps; the greatefl marks of indufry which M. Vaillant could difcover among any of the African nations. To fecure this fcanty fupply of water even from the birds, they are in the practice of covering the mouth of the hole with thones and the branches of trees; ypt in fuite ef all this economy, the

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wells frequently become dry, in which cafe the horde mult remove to fome other quarter. This circumblance renders the Koraquas a more wandering people than any of the other weftern tribes. 'They colour their bodies differently according to whim or caprice, and it is no uncommon thing to fee them vary it every day, which gives them to each other a flrange appearance as if they were drefled for a mafquerade.

KOREKI, the country of the Koriacs. See the next article.

KORIACS, a people inhabiling the northern part of Kamtfchatka, and all the coaft of the Eaftern ocean from thence to the Anadir.- They are divided into the Rein-deer or Wandering Koriacs, and the Fixed Koriacs. The former lead an erratic life, in the tract bounded by the Penfchinkia fea to the fouth-eaft, the river Kowyma to the welt, and the river Anadir to the north. They wander from place to place with their rein deer, in fearch of the mofs, the food of thofe animals, which are their only wealth. They are fqualid, cruel, and warlike; the terror of the Fixed Koriacs, as much as the Tfchutki are of them. They never frequent the fea, nor live on filh. Their habitations are jourts, or places half funk in the earth; and they never ule balagans or fummer houfes elevated on pofts like the Kamtfchatkans. They are in their perfons lean, and very fhort; have fmall heads and black hair, which they fhave frequently: their faces are oval; their nofe is thort; their eyes are fmall; their mouth is large; and their beard black and pointed, but often eradicated. -The Fixed Koriacs are likewife fhort ; but rather taller than the others, and ftrongly made: the Anadir is allo their boundary to the north, the ocean to the eaft, and the Kamtfchatkans to the fouth. They have a few rein deer, which they ufe in their fledges; but neither of the tribes of Koriacs are civilized enough to apply them to the purpofes of the dairy. Each fpeak a different dialect of the fame language : but the Fixed in molt things refemble the Kamtlchatkans; and, like them, live almof entirely on filh. They are timid to a high degree, and behave to their wandering brethren with the utmoft fubmiffion; who call them by a name which fignifies their flaves. Thefe poor people feem to have no alternative: for, by reaton of the fcarcity of rein deer, they depend on thefe tyrants for the ettential article of clothing.Thefe two nations, Mr Pennant fuppofes, from their features, to be the offspring of Tartars, which have fpread to the eaft, and degenerated in fize and ftrength by the rigour of the climate, and often by farcity of food.

KOS, in Jewifh antiquity, a meafure of capacity, containing about four cubic inches: this was the cup of blelfing out of which they drank when they gave thanks after folemn meals, like that of the pafforer.

KOTITERUS, Christopher, was one of the three fanatics whofe vifions were pulblighed at Amfterdam in 1657, with the title of Lax in tenebris. He lived at Sprotta in Silefia, and his vilions began in 1616. He fancied he faw an angel under the form of a man, who commanded him to go and declare to the magiftrates, that, un?efs the people repented, the wrath of God would make dreadful harock. '1'be elector palatine, whom the Proteftants had declared Fing of Buhemia, was introduced in thefe vilions. In tys 3 P
vaited

Ko:eki 11 Kotterus.

Kou-chu wrated on him at Breflaw in December 1620, and in-
11 formed him of his commifion. He went to feveral Koic. other places, and at laft to the court of Brandenburg. As mon? of thefe predictions promifed felicity to the clector palatine, and unliappinefs to his imperial majefty, the emperor's fifcal in Silefia and Lufatia got him feized, fet on the pillory, and banihed the emperor's dominions. Upon this he went to Lufatia, and there lived unmolefted till his death, which happened in $16+7$.

KOU.chi, a Chinefe flrub, which bears a great refemblance to the fig tree both in the make of its

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p. $4^{86}$. branches and the form of its leaves. From its root - feveral twigs or fhoors generally fpring up, which for:n a kind of buhh; tut fometimes it confits of only one fhoot. The wood of the branches of the kou-chu is foft and fpongy, and covered with bark like that of the fig tree. Its leaves are deeply indented, and their cofour and the texture of their fibres are exactly the fame as thofe of the fig tree; but they are larger and thicker, and much rougher to the touch.

This tree yields a kind of milky juice, which the Chinefe ufe for laying on gold leaf in gilding. They make one or more incifious in the trunk, into which they infert the edges of a flell, or fomething elfe of the fame kiad to receive the fap. When they have estracted a fufficiency, they ufe it with a fmall bruih, and delineate whatever figures they intend for the decoration of their work. They then lay on the goldleaf, which is fo ftrongly attracted by this liquor, that it never comes off.

KOUANIN, in the Chinefe language, the name of a tutelary deity of wromen. The Chinefe make great numbers of the figures of this deity in white porcelain, and fend them to all parts of the world, as well as keep them in their own houfes. The figure reprefents a woman with a child in her arms. The women who have no children pay a fort of adoration to thefe images, and fuppofe the deity they reprefent to have power to make them fruitful. The fatue always reprefents a handfome woman very modeftly attired.

KOUC, or KoEck, Peter, an excellent painter in the 1 tih century, was born at Aloft, and was the difciple of Bernard Van Orley, who lived with Raphael. He went to Rome; and by fudying the beautiful pieces which he found there, formed an excellent tafte, and became a very correct defigner. On his return to lis orw country, he undertook the office of diresting the execution of fome tapeftry work after the deligns of Raphael. He was afterwards perfuaded by fome merchants of Bruffels to undertake a vovage to Conftantinople; but when he came there, finding that the 'Turks were not allowed by their religion to draw any figure, and that there was nothing for him to do but to draw defigns for tapeltry, he fpent his time in defigning the particular profpects in the neighbourhood of Conftantinople, and the manner of the Turks living; of which he has left many wooden cuts, that alone futtice to give an idea of his merit. After his return from Conftantinople he fettled at Antwerp, where he drew feveral piQares for the emperor Cha. V. He was allo a grod architect ; and, in the latter past of his life, wrote $\Lambda$ Treatife of Sculpture, Geometry, and Perfpective; and tranflated Vitruvius and Serliv into the Flemifh tongue. He died in 1550.

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KOULI-Khan, Thismis, or Schah Niditr, was not the fon of a incpherd, as the authors o? the ling1:th Biographical Ductionary aiert: his futher being chief of a branch of the tribe of A.chars, and governor of a fortelis created by that people againt the Turks. Upon his father's deati, his uncle ulurped his government, under the pretext of taking care of it during the minority of Kali-Khan ; or, raore properly, young Nadir. Difgutt at this affront made him commence adventurer. He entered into the fervice of the beglerbeg or governor of Muichada, in Khorafan ; who, difcovering in him ftrong marks of a military genius, promoted him to the command of a regiment of cavalry. In 1720 , the Uibec Tartars having made an irruption into Khorafan with 10,000 men, the beglerbeg, whofe wl:ole force confitited only of 4000 horle and 2000 infantry, called a council of war, in which it was declared imprudent to face the enemy with fuch an inferior force: but Kouli-Khan propofed to march againft the enemy, and engaged to conduct the expedition, and to be anfwerable for the fuccefs of it. He was accordingly made general ; defeated the Tartars, and took their commander prifoner. Hoffein Beglerbeg received him at his return with marks of diltinction: but growing jealous of his riing fame, inflead of obtaining him the rank of lie: $1-$ tenant-general of Khorafan, as he had promifed, obtained it for arother; which fo exafperated KouliKhan, that he publicly complained of the governor's ingratitude and perfidy; who thereupon broke him, and ordered him to be punilhed with the baltinado fo feverely, that the nails of his great toes fell off. This affront occafioned his flight, and his joining a banditti of robbers (not his ftealing his father's or his neighbour's fheep). The reft of his adventures are too numerous to be inferted in this work. In 1729 he was made general of Perfia by Schah Thanmas, and permitted to take his name Thamas, and that of Kbuli, which fignifes flave: his title therefore was, The faide of Thamas; but he was ennobled by the addition of Khan. In 1736 , he fomented a revolt againft his mafter, for having made an ignominious peace with the Turks; and having the army at his command, he procured his depofition, and his own advancement to the throne. In 1739 he comquered the Mogul empire; and from this time growing as cruel as he was ambitious, he at length met with the ufual fate of tyrants, being aflallinated by one of his generals, in league with his nephew and fuccefior, in 1747, aged fixty.

KOUMISS, a fort of wine made in Tartary, where it is ufed by the natives as their common beverage during the feafon of it, and often ferves them inftead of all other food. It is faid to be fo nourithing and falutary, that the Bafchkir Tartars, who towards the end of winter are much emaciated, no fooner return in fummer to the ufe of koumifs, than they become flroug and fat. The author of "A hiftorical defrciption of all the nations which compofe the Rulfian empire," fays, fpeaking of koumis, Elle eft fort nouriflante, at peut tenir lien de tout autre atiment. Las Bafchisirs s'cn trouvent très bien, clle les rend bienportans af gais; clle leur donne de l'embonpoint, at de bonnes couleurs. From the 'Tartars it has been borrowed by the Ruffians, who ufe it medicinally. It is made with fermented mares

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cumis. milk, accoruing to the following recipe, communicated by Dr Grieve, in the Edinburgh Philofophical Tranfactions*, as he obtained it from a Ruffian nobleman, who went into that part of Tartary where it is made, for the fake of ufing it medicinally.
"Take of frelh mares milk, of one day, any quantity; add to it a fisth part of water, and pour the mixture into a rooden veffel; wfe then, as a ferment, an eighth part of the fourell cows milk that can be got ; but at any future preparation, a fuall portion of oid koumils will better anfwer the purpofe of fouring; cover the veffel with a thick cloti, and fet in a place of moderate warmth; leave it at rell 24 hours, at the end of which time the milk will have become four, and a thick fubitance will be gathered on the top; then with a fick made at the lower end in the manner of a churn flaff, beat it till the thick fubftance alove mentioned be blended intimately with the fubjacent lluid. In this fituation, leave it again at reft for 24 hours more; after which pour it into a higher and narrower veffel, refembling a churn, where the agitation mult be repeated as before, till the liquor appear to be perfectly homogeneous; and in this flate it is called kounifs, of which the talte ought to be a pleafant mixture of fweet and four. Agitation mult be employed every time before it be ufed."-To this detail of the procefs the nobleman fubjoined, that in order to obtain milk in fufficient quantity, the Tartars have a cuftom of feparating the foal from the mare during the day, and allowing it to fuck during the night: and when the milk is to be taken from the mare, which is generally about five times a-day, they always produce the foal, on the fuppofition that the yields her milk more copioufly when it is prefent.
To the above method of making koumifs, our author has added fome particulars taken from other communications with which he was favoured by Tartars themfelves. According to the account of a Tartar who lived to the fouth-eaft of Orenbourg, the proportion of milk and fouring ought to be the fame as above; only, to prevent changing the veffel, the milk may be put at once into a pretty high and narrow vefiel : and in order to accelerate the fermentation, fome warm milk may be added to it, and, if neceffary, more fouring. - From a Tartar whom the doctor met with at the fair of Macarieff upon the Volga, and from whom he purchafed one of the leathern bags ( $A$ ) which are ufed by the Kalmucs for the preparation and carriage of their koumifs, he learned that the procefs may be much flortened by heating the milk before the fuuring be added to it, and as foon as the parts begin to feparate, and a thick fubftance to rife to the top. by agitating it every hour or oftener. In this way he made fome in the doctor's prefence in the fpace of 12 hours. Our author learned alfo, that it was common among fome Tartars to prejare it in one day during fummer, and
that with only two or three agitations; but that in winn Found ter, when, from a deficiency of marcs milk, they are oidliged to add a great proportion of that of cows, more agitation and more time are neceflary. And though it is commonly ufed within a few days after the preparation, yet when well fecured in clofe vefiels, and kept in a cold piace, that it may be proferved for three months, or cren more, without any injury to its qualities. He was told farther, that the acid fermentation might be produced by four milk as above, by a four pafte of ryc tlour, by the rennet of a lamb's foomach, or what is more common, by a portion of old koumif, and that in fome places they faved much time, by adding the new milk to a quantity of that already fermented; on being mixed with which, it very foon undergoes the vinous change.

It was according to the procefs firlt mentioned, however, that ail koumifs which the doctor employed in medicine was prepared.-It has been found ferviceable in hectics and nervous complaints; and our author re'ates fome very itriking cafes which the ufe of it had completely cured. All thofe who drank it, our author informs us, agreed in faying, that during its ufe, they had little appetite for food; that they drank it in very large quantities, not only without difguft, but with pleafure; that it rendered their veins turgid, without producing languor; that, on the contrary, they foon acquired from it an uncommon degree of fprightlinefs and vivacity; that even in cafes of fome exceff it was not followed by indigeftion, headach, or any of the fymptoms which ufually attend the abufe of other fermented liquars.

The utility, however, of this preparation as a medicine, fuppofing it completely afcertained, would among us, as out author obferves, be greatly circumfcribed by the fcarcity of mares milk in this country. "Hence (fays he) inquiries will naturally be made, whether other fpecies of milk admit of a fimilar vinous fermentat:on, and what proportion of fpirit they contain. As thefe have never been the object, bowcerer, of my attention, I will here give the fubflance of what I have been able to learn from others refpecting that which is the molt common, the milk of cows.
"Dr Pallas, in the work above quoted, fays, that cows milk is alfo fufceptible of the vinous fermentation, and that the Tartars prepare a wine from it in winter, when mares miik fails them; that the wine prepared from cows milk, they call airen; but that they always prefer koumifs when it can be got, as it is morc agreeable, and contains a greater quantity of fpirit ; that koumifs on dilliliation yiclds of a weak firit onc third, but that airen yields only two nisth parts of its whole quantity, which fpirit they call arica.
"This account is confirmed by Ofretkowify, a Ruffian, who accompanied Lepechin and o her academicians; in their travels through Siberia and Tartary.

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(A) This bag was macle of a hoife's hile wirefted, and by having been fmoked had acquired a great degree of hardnefs. lis fan was ccaical, but was at the lame time fomewhat triangular, from being compofed of three different pieces, $f_{i} \cdot$ in a circular are ot the fame hide. The futures, which were made with tendons, were fecured by a covering on the ouffide, will a doulbing of the fame fkin, very clofely fecured. It had a dirty appearance, and a very difagreatle fincll. On bein rafted the reaton of this, he faid, "The remains of the old koumifs were left, in order to fupply a ferment to the ncw milk."

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Yrat. as Fie fublifud lately a dilfortation on the ardent fpirit to be obtained from cows nilk.
"From his experiments it appears, that cows milk may be fermented with, or even without, fouring, provided fufficient time and agitation be employed; that no firit could be produced from any of its conftituent parts taken feparately, nor from any two of them, unlefs inafmuch as they are mixed with fome part of the third; that the milk with all its parts in their naiural proportion was the moft productive of it; that the clofer it was kept, or, which is the fame thing, the more difficultly the fixed air is allowed to elcape during the fernentation (care being taken, however, that we do not endanger the burfing of the veffel), the more fpirit is obtained. He alfo informs us, that it had a fourer fmell before than after agitation; that the quantity of Spirit was increafed, by allowing the fermented liquor to repofe for fome time before diftillation; that from fix pints of milk fermented in a clofe veffel, and thus fet to repole, he obtained three ounces of ardent fpirit, of which one was confumed in burning ; but that from the lame quantity of the fame milk fermented in an open vellel, he could farcely obtain an ounce.

KR AKEN, the name of an animal fuppofed to have been feen at fea, of a monftrous fize, in the exiftence of which the weaknels and credulity of the fifhermen have excited the beliet even among refpectable naturalits, and among others Bifhop Pontoppidan, who defcribes it in his Natural Hiftory of Norway. It is probable that the whole depends on certain optical appearances arifing from a peculiar ftate of the atmofphere, which thus exhibits to the deluded fancy fomething of the form of a huge animal.

KRANTZIUS, Albertus, a native of Hamburgh, and a famous hiltorian, who travelled over feveral parts of Europe, and was made rector of the univerfity of Roltoch in $\mathbf{1 4 8 2}$. He went from thence to Hamburgh in 1508, where he was elected dean of the chapter in the cathedral. He did many good fervices to that church and city ; and was fo famed for his abilities and prudence, that John king of Denmark and Frederic duke of Holftein did not foruple to make him umpire in a difpute they had with the Ditmarfi. He wrote feveral good hiftorical works; the molt confiderable of which is an Ecclefiafical Hiftory of Saxony, entitled Metropolis, in folio; the beft edition is that of Francfort. He died in 1517 .

KRAUT, or Crout. See Crout.
KRISHNA, or CRTSHNA, an eaftern river of confiderable magnitude, very little known to Europeans. It annually overtlows a vait tract of country, like the Indus on the weitern fide of the empire. It rifes from the foot of the weflern Ghauts, about 45 miles from Severndroog. There is another branch to the eaft, on which fide is Sattara, a ftrong fortrefs, and once the capital of the Mahratta ftate. Ihe river continues defcending to the eall. Into the north fide of the Krifhna falls the great river Bima, after traverfing a country 350 miles in extent. The Kribna, above and below its conflux with the Bima, is fordable; and its channel is 600 yards wide a few miles below, rendered horrible by the number and rudenefs of the different rocks, which are only covered during the rainy feafon.

Another estenfive branch of the Erilhna is Tung.
buddra, which falls into it in Lat. $10^{\circ} 25^{\prime}$, and rifes far to the fouthward from a dubions fountain. This river deifes confiderable celebrity from its having had on its banks at one period the fplendid city of Vijana. gar, in Lat. $15^{\circ} 22^{\prime}$, founded in 1344 by Belaldeo King of the Carnatic, which at that time comprehended the whole peninfula. This valt city is faid to have been 24 miles in circumference. In the remaining part of the courfe of the Krilina, there is nuthing to be met with which is anyway remarkable.

KUBESHA. See Lesguis.
KUMI, the name of an ifland fituated between Japan and China, which was vilited by the unfortunate navigator Peroufe. The inhabitants of this illand are neither Japanefe nor Chinefe, but feem to participate of the nature of both. They inear a hirt and cotton drawers, and their hair, tucked up on the crown of the head, is rolled round a needle, probably of gold. Each wears a dagger with a golden handle; their canoes are made of trees hollowed out, which they manage with no great dexterity. At Kumi, veffels in want of provifions, wood, and water, might find a featonable fupply; but as the whole illand does not exceed 12 miles in circumference, the population can fcarcely be eftimated at more than 500 ; and as M. Peroufe well obferres, " a few gold needles are not of themfelves a proof of wealth," so that the trade with its inhabitants would of neceffity be very limited. Kumi lies in $24^{\circ}$ $33^{\prime}$ N. Lat. and $120^{\circ} 56^{\prime}$ E. Long. from Paris.

KUNCKEL, John, a celebrated Saxon chemif, born in the duchy of Slefwick, in 1630 . He became chemift to the elector of Saxony, the elector of Brandenburgh, and Charles XI. king of Siveden, who gave him the title of counfellor in metals, and letters of nobility, with the furname of Louwenfeing. He employed 50 years in chemiftry; in which, by the help of the furnace of a glafshoufe which he had under his care, he made feveral excellent difcoveries, particularly of the phofphorus of urine. He died in Sweden in 1702; and left feveral works, fome in German, and others in Latin: among which, that entitled Obfervationes Chemica, and the Art of making Glafs, printed at Paris in 1752 , are the molt efteemed.

KURIL or Kurilski Isles, extending from N. Lat. 51. to 45. which probably once lengthened the peninfula of Kamtichatka before they were convulfed from it, are a feries of iflands running fouth from the low promontory Lopatka, between which and Shoomika the moft northerly is only the diltance of one league. On the lofty Paramoufer, the fecond in the chain, is a high peaked mountain, probably volcanic ; there is alfo a volcano on the fourth, called Araumakutan; and there are others on fome of the fmaller illands. Japan alfo abounds with volcanoes; fo that there is a feries of fpiracles from Kamtfchatka to Japan, the laft great link of this extenfive chain.-The Ruffians foon annexed thefe illands to their conquelts. The fea abounded with otters, and the land with bears and foxes; and fome of the ifes fheltered the fable; but now it is faid, the furs of the fea otters have become extremely fcarce both here and in Kamtichatka.

Of the 21 iflands fubject to the Ruffian empire, no more than four are inhabited, which are the firt, fecond, thirteenth, and fourteenth, as they are diftin-

Surtus, guifhed from each other by numbers inltead of namcs.
The inhabitants pafs the winter on $\mathrm{N}^{\circ} \mathrm{I} 4$, and the fummer months on $\mathrm{N}^{\circ}{ }_{13}$. The relt of thefe illands are
wholly uninhabited; but vifited occafionally, for the purpofe of hunting otters and foxes. Between the illands the currents are extremely violent, efpecially at the entrance of the channels, forme of which are blocked up with rocks on a level with the fea. The population of the four inlabited illands may amount to 1400. The natives are hairy, have long beards, and fublift entirely on the produce of the chace, on feals, and other fpecies of fith. At the time when Peroufe rifted this ifland, the people were exempted for ten years from the tribute paid to the emperor of Rufia, becaule the number of otters was greatly diminilhed; a pleafing proof of the mildnefs of that government, which has been fo often reprefented as rigidly defpotic. The people of thefe illands are reprefented as poor, but virtuous, given to hofpitality, and docile, and all of them believers of the Chriltian religion. They extend from $51^{\circ}$ to $45^{\circ} \mathrm{N}$. Lat.

KURTUS, a genus of fifhes belonging to the order Jugulares. See Ichthyology Index.

KUSTER, LUdolf, a very learned writer in the 18th century, was born at Blomberg in Weftphalia. When very young, he was upon the recommendation of Baron Spanheim appointed tutor to the two fons of the count de Schwerin, prime minifter of the king of Pruflia, who, upon our author's quitting that Itation, procured him a penfion of 400 livres. He was promifed a profeiforthip in the univerfity of Joachim; and till this fhould be vacant, being then but 25 , he refolved to travel. He read lectures at Utrecht; went to England; and from thence to France, where he collated Suidas with three MSS. in the king's library, which furnifhed him with a great many fragments that had never been publithed. He was honoured with the degree of doctor by the univerfity of Cambridge, which made him feveral advantageous offers to continue there: but he was called to Berlin, where he was intalled in the profeflorhip promifed him. Afterwards he went to Antwerp; and being brought over to the Catholic religion, he abjured that of the Proteftants. The king of France rewarded him sith a penfion, and ordered him to be admitted fupernumerary affociate of the Academy of Infcriptions. But he enjoyed this, however, a very fhort time; he died in $17 \pm 6$, aged 46 . He was a great mafter of the

Latin tongue, and wrote well in it ; but his chief Kyie, excellence was his $\mathbb{k}: 11$ in the Greek language, to Kyphonirm. which he almoft entirely devoted himfelf. He wrote many worl:s ; the principal of which are, I. Hiforia critica Homeri. 2. Jamblicus de vita Pythagurae. 3. An excellent edition of Suidas, in Greek and Latin, three volumes, folio. 4. An edition of Ariftophanes, in Greek and Latin, folio. 5. A new Greek edition of the New Teltament, with Dr Mills's Variations, in folio.

KYLE, a diftrict of Ayrhire in Scotland, the limits of which are erroneoully fated in the account which is given of that county. There are three diftricts in Ayrfhire, Carsick to the fouth, Kyle in the middle, and Cunningham to the north. Carrick is divided from Kyle by the river Doon, and not by the river Ayr as has been noted by miftake; the boundaries of Kyle are the river Doon on the fouth, and the river Irvine on the north. Sce Ayrshire.

KYPHONISM, KYPhosismus, or Cyphonifinus, an ancient punihment which was frequently undergone by the martyrs in the primitive times; wherein the body of the perfon to fuffer was anointed with honey, and fo expofed to the fun, that the flies and wafps might be tempted to torment him. This was performed in three ways: fometimes they only tied the patient to a ftake; fometimes they hoilted him up into the air, and fufpended him in a baket; and fometimes they ftretched him out on the ground with his hands tied behind him. The word is originally Greek, and comes from xupw, which fignifies either the $\operatorname{lak} e$ to which the patient was tied, the collar fitted to his neck, or an inflrument wherewith they tormented him: the fcholiaft on Ariftophanes fays, it was a wooden lock or cage; and that it was called fo from $x \cup \pi\} \& เ$, "to crook or bend," becaufe it kept the tortured in a crooked, bowing pofture; others take the xupwy for a log of wood laid over the criminal's head, to prevent his ftanding upright: Hefychius defcribes the xvpuy as a piece of wood whereon criminals were ftretched and tormented. In effect, it is probable the word might fignify all thefe feveral things. It was a generical name, whereof thefe were the \{pecies.

Suidas gives us the fragment of an old law, which punimed thofe who treated the laws with contempt with kyphonifm for the face of twenty days; after which they were to be precipitated from a rock, dreffed in women's habit.

I A femi-vowel, or liquid, making the eleventh , letter of the alphabet.
It was derived from the old Hebrew Lamed, or Greek Lambda $\lambda$. It is founded by intercepting the breath between the tip of the tongue and forepart of the palate, with the muuth open; and makes a fweet found, with fomething of an afpiration; and therefore the

Britons and Spaniards ufually doubled it, or added an $h$ to it, in the beginning of words, as in llan, or lhan, " a temple," founding wearly like $\beta$, \&ic. In Engliih words of one fyllable it is doubled at the end, as sell, bell, knell, \&e. but in words of more fyllables than one it is lingle at the end, as evil, general, confitusional, \&c. It is placed after molt of the confonants in the begin.

La, ning of word's and ivllables, as black, giarc, ad-lc, ca-gle, Iquadie. \&zc, but before none. Its found is clear in $A b c l$, but
obfcure in able, \& $c$.

As a mumeral letter, L. denotes 50 ; and with a dath over it, thus, $T, 5000$. Ufed as an abbreviature, L. Itands for Lucius; and L. L. S. for a feflerce. Sec Sesterce.

Int, the fyllable by which Guido denctes thee laft found of each howachord; if it begins in $C$, it anfwers to our $\mathcal{A}$; if in $G$, to E; and if in F , to D .

LABADIE, John, a famous French enthufiaf, fon of John Charles Labadie, governor of Beurges and gentleman in ordinary of the bedchamber to the French king, was bern in 1610 . He entered young into the Jefits college at Bourdeaux ; which, by his own account, he afterwards quitted, but by other accounts was expelled for his peculiar notions, and for hypocrify. He became a popular preacher; hut being repeatedly detected in working upon female devotees with fpiritual influctions for carnal purpofes, his lofs of character among the Catholics drove him among the Protetiants. A veformed Jefuit being thought a great acquition, he was precipitately accepted as a pat'or at Montauban, where re officiated for eight years; but, attempting the chatity of a young lady whom he could not convert to his purpofe, and quarrclling with the Catholic prieft about the right of interring a dead body, he was at Jencth banified that place. The ftory of his affair with the lady, as related by Mr Bayle, may here be given as a fpecimen of his miniftry. Having directed this damfel to the fuiritual life, which he made to confift in internal recollection and mental prayer, he gave her out a certain point of meditation; and having ftrongly recommended it to her to apply herfelf entirely for fome hours to fuch an important object, he went up to her when lue believed her to be at the height of her recollection, and put his hand into her breaf. She gave hin a hafly repulfe, expreffed a great deal of furprife at the procceding, and was even preparing to rebuke him, when he, without being in the leaft difconcerted, and with a devout air, prevented her thus: "l fee plainly, my child, that you are at a great diftance from perfection; acknowledge your weaknefs with a humble fpirit; aft forgivenefs of God for your having given fo little attention to the myfteries upon which you ought to have meditated. Had you beftowed all neceflary attention upon thefe things, you would not have been fenfible of what was doing about your breaft. But you are fo much attached to fenfe, fo little concentered witl the Godhead, that you were not a moment in difcovering that I had touched you. I wanted to try whether your fervency in prayer had raifed you above the material world, and united you with the Sovereign Being, the living fource of immortality and of a fpiritual flate; and 1 fee, to my great grief, that you have made very fmall progrefs, and that you only creep on the ground. May this, my child, make you afhamed, and for the future move you to perform the duties of mental prayer better than you have hitherto done." The young lady, who had as much good fenfe as virtue, was no lefs provoked at thefe words than at the bold actions of her ghofly inftructor; and could never afterwards bear the name of fuch a holy father. Labadie being driven out of Montauban, went to feek an afylum at Orange : but not finding himfelf
fo fafe there as he imagined, he withdrew privately to Geneva, where he impoled on the people by his devout preaching and carriage; and from thence was invited to Middleburg, where his fpirituality made him and his followers be confidered as fo many faints, diftinguifhed by the name of Labadifls. They increafed fo much, that lie excited the attention of the other churches, whofe authority he difputed, till he was formally depofed by the fynod of Dort. Inftead of cbeying, he procured a tumultuous fupport from a crowd of his devotecs; and at lengit formed a little fettlement between Uirecht and Amferdam, where he erected a printing prefs, which fent forth many of his works. Here he was betrayed by fome deferters, who expofed his private lite, and informed the public of his familiarities with his female dilciples, under pretence of uniting them more particularly to God; and was finally obliged to retire to Altena in Holfein, where lie died in 1674.

LABADISTS, a leet of religionifts in the 17 th century, followers of the opinions of John Labadie, of whom an account is given in the preceding article. Some of their opinions were, 1. That God could, and did deceive men. 2. That, in reading the Scriptures, greater attention fhould be paid to the internal infpiration of the Holy Spirit than to the words of the text. 3. That baptifm ought to be deferred till mature age. 4. That the good and the wicked entered equally into the old alliance, provided they defcended from Abraham; but that the new admitted only fpiritual men. 5. That the obfervation of Sunday was a matter of in. difierence. 6. That Chrift would come and reign 1000 years on earth. 7. That the eucharitt was only a commemoration of the deatl $l_{1}$ of Chrift ; and that, though the fymbols were nothing in themfelves, yet that Chrif was fpiritually received by thofe who partook of them in a due manner. 8. That a contemplative life was a tlate of grace, and of divine union during this life, the fummit of perfection, \&c. 9. That the man shofe heart was perfectly content and calm, half enjoys God, has familiar entertainments with him, and fees all things in him. 10. That this flate was to be come at by an entire felf-abnegation, by the mortification of the fenfes and their objects, and by the exercife of mental praycr.

LABARUM, the banner or ftandard borne before the Roman emperors in the wars. The labarum confifted of a long lance, with a ftaff a-top, crofling it at rigbt angles; from which hung a rich ftreamer, of a purple colour, adorned with precious ftones. Till the time of Conflantine it had an ergle painted on it; tut that emperor, in lien thereof, adfed a crofs with a cipher exprelling the name of fofus.

This ftandard the Rumars took from the Germans, Dacæ, Sarmatæ, Pannonians, \&c. whom they had overcome. 'The name labarum was not known before the time of Cunflantine; but the fandard itfelf, in the form we have defribed it, abating the fymbols of Chriftianity, was ufed by all the preceding emperors. Some derive the word from lator, as if this finithed their labours; fome from suna $\oplus \varepsilon \varepsilon x$, "reverence, piety ;" others from $\lambda \alpha \mu \beta^{\circ} \alpha \Delta \varepsilon s \nu$, " to take;" and others from入oфuga, " ppoils."

LABAT, John Baptist, a celebrated traveller, of the order of St Dominic, was born at Paris, taught philofophy

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dodanum Philofophy at Nancy, and in 1693 went to America in quality of a milfonary. At his return to France in 1795 , he was fent to the chapter of his order at Bologna to give an account of his miffion, and faid feveral years in Italy. He died at Paris in 1738. His principal worlis are, 1. A new voyage to the American illands, 6 ruls I $2 m o$. 2. Travels in Spain and Italy, 8 vols :2mo. 3. A new acconnt of the weftern parts of Alrica, 5 vols 12 mo . Father Labat was not in Africa, and therefore was not a witnefs of what he rclates in that work. He alfo publifhed the Chevalier des Marchais's zoyage to Guinea, in 4 vols 12 mo.; and Ail lifforical account of the weflern parts of Ethiopia, tranllated from the Italian of Father Carazzi. 5 vuls 12 mo .

LABDANUM, or LADANuA, a refnous juice which exudes from a tree of the ciftur kind. See Chemistry and Materia Medica Index.

LABDASSEBA, a tribe of favage Arabs inhabiting the defart of Sahara in Africa. They are confidered as the molt powerful of all thofe tribes esicept the Ouadelims, and very much refemble them in every particular. See Sahara and Ouadehms.

LABEL., a long, thin, brafs rule, with a finall fight at one end, and a centre hole at the other; commonly ufed with a tangent line on the edge of a circumferentor, to take altitudes. \&cc.

Label, in Law, is a narrow dip of paper, or parchment, affixed to a deed or writing; in order to hold the appending feal.-Any paper annexed by way of addition or explication, to any will or teltament, is alfo called a label or codicil.

Label, in Heraldry, a fillet ufually placed in the middle along the chief of the coat, without touching its extremities. Its breadth ought to be a ninth part of the chief. It is adorned with pendants; and when there are above three of thefe, the number muft be $\int_{\mathrm{p}} \mathrm{e}$ cified in blazoning.

It is ufed on the arms of elden fons while the fa. ther is alive, to diltinguifh them from the younger; and is efteemed the molt honourable of all differences. See Heraldry.

LABIAL letters, thofe pronounced chiefly by means of the lips.

LABIATED Flowers, monopetalous tlawers, confiting of a narrow tube with a wide mouth, divided into two or more fegments. See Botany.

LABIAU, a fmall town of Ducal Pruffa, in a circle of the fame name, feated at the mouth of the river Deime, with a frong caltle, two fides of which are furroundel with water, and the uther defended by a wall and ditch. E. Lons. 19. 56. N. Lat. 55. 17 .
L. $\triangle$ BORATORI, or Elaboratory, the chemifts workhoufe, or the place where furnaces are built, reffels kept, and operations are performed. In general the term faboratary is applied to any place where phy. fical experiments in pharmacy, chemiliry, gy rotechny, \&c. are pe-formed.

As laboratories mult be of very diferent kinds, according to the nature of the operations to be performed in them, it is impofible that any lirections can be given which will anfwer for every ure. Where the purpofes are mercly cxperimearal, a fingle Eurnace or two of the portable kind will be futicient. It is fcatculy needful to add, that Chelies are necenary for Jolding
veffels with the products of the different operations: Laboratory and that it is abfolutely neceflary to avoid confution and diforder, as by thefe means the preducts of the operations might be loft or miftaken for one another. Mortars, filters, levigating itones, \&c. mult alfo be procured : but from a knowledge of the methods of performing the different chemical operations will eafily be derived the knowledge of a proper place to perform them in; for which fee Chemistry, Neithlurgi, and Furvace.

Morveau has contrived a portable laboratory ritio which many chemical experiments may be conveniently performed. The following is a defcription of it.

Fig 1. reprefents the whole apparatus ready mounted for diftillation, with the tube of fafety and a pneumatic receiver. A is the body or refervoir of Argand's lamp, with its fhade and glafs chimney. The lamp may be raifed or lowered at pleafure by means of the thumb fcrew B , and the wick rifes and falls by the rotion of the fmall toothed wheel placed over the wafte cup. This conftruction is moft convenient, becaufe it affords the facility of altering the pofition of the tlame with regard to the veffels, which remain fixed; and the troublclome management of bended wires above the flame for the fupport of the veffels is avoided, at the fame time that the flame itfelf can be brought nearer to the mater on which it is intended to act. D , a fupport confifting of a round flem of brafs, formed of two pieces which feresw together at about two-thirds of its height. Upon this the circular ring $F$, the arm $F$, and the nut $G$ flide, and are fixable each by its relpective thumb-ferew. The arm alfo carries a moveable piece $H$, which ferves to fufpend the veffels in a convenient fituation, or to fecure their pofition. Ihe whole fupport is attached to the fquare iron fem of the lamp by a piece of hard wood I, which may be fixed at any required dituation by its forew. K reprefents a fland for the receivers. Its moveable tablet L is fixed at any required elevation by the wooden ferew M. The piece which forms the foot of this fland is fixed on the board N ; but its relative polition with regard to the lamp may be changed by fliding the foot of the latter between the pieces OO. $P$, another ftand for the pneumatic trongh. It is raifed or lowered, and fixed to its place, by a ltrong wooden fcrew $Q . R$ is a tube of fafety, or reverfed fyphon, which lerves, in a great meafure, to prevent the bad effects of having the veflels either perfectly clofed, or perfectly open. Suppofe the upper bell-ihaped veffel to be nearly of the fame magnitude as the bulb at the lower end of the tube, and that a quantity of water, os other luitable fluid, fomewhat lefs than the contents of that veffel, be poured into the apparatus: In this fitur. tion, if the clafticity of the contents of the vellels be lefs than that of the external air, the fluid will defcend in the bu!b, and atraufpheric air will follow and pars through the fuid into the velfels: but, on the contrary, if the elanicity of the contents be greater, the thaid will be edher fuftained in the tube, or driven intu the bell-tha, ed whel ; sind if the force be fitrong enough, the gaicous mater will pefs thruagh the huid, and in part clape.

F゙g. 2. Shew, the lamp funance difpefed to produce the alen e fution; the chimuey of glars thartened; the fuppor at : trned down; the saprite of platina or filver S placed on the ring very near the thame.

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Laloratory Fig. 3. The fame part of the apparatus, in which, inftead of the capfule, a very thin and fmall crucible of
Labyunth. platina $T$ is fubftituted, and refts upon a triangle of iron wire placed on the ring.

Tig. 4. Exhibits the plan of fig. 3 .
Laboratori:, in military affairs, fignifies that place where all forts of fire-works are prepared, both for actual fervice and for experiments, viz. quick matches, fuzes, port-fires, grape thot, cafe hot, carcaffes, handgrenades, cartridges, Thells filled, and fuzes fixed, wads, \&c. \&c.

LABOUR, in general, denotes a clofe application to work or bulinefs.-Among feamen a hip is faid to labour when the rolls and tumbles very much, either ahull, under fail, or at anchor-It is alfo fpoken of a woman in travail or childbirth; fce Midwifery.

LABOURER, generally fignifics one that does the molt flavifh and lefs artful part of a laborious work, as that of hufbandry, mafonry, \&ec.

LABOUREUR, Johiv le, almoner to the king of France, and prior of Juvigne, was born at Montmorency near Paris in 1623. At the age of 18 , he diftinguikhed himfelf by publithing, "A collection of the monuments of illuftrious perfons buried in the church of the Celeftines at Paris, with their elogies, genealogies, arms, and mottos," 4to. He afterwards publifhed an excellent edition of The Memoirs of Michael de Caftelneau, with feveral other genealogical hiftories; and died in 1675 . - He had a brother, Louis le Laboureur, bailiff of Montmorency, author of feveral pieces of poetry; and an uncle, Dome Claude le Laboureur, provoll of the abbey of L'lle Barbe, of which abbey he wrote a hiftory, and publifhed notes and corrections upon the breviary of Lyons, with fome other things.

LABRADOR, the fame with New Britain, or the country round Hudson's Bay. See thefe articles.

LABR ADORE stone, a pecies of mineral which exhibits a great variety of colours. See Mineralogy Index.

LABRUM, in antiquity, a great tub which flood at the entrance of the temples, containing water for the priefts to wath themfelves in previous to their facrifices. It was alfo the name of a bathing tub ufed in the baths of the ancients.

LABRUS, a genus of fithes belonging to the order of thoracici. See Ichthyology Index.

Laburnum. See Cytisus, Hotany Index.
LABY'RINTH, among the ancients, was a large intricate edifice cut out into various aifles and meanders running into each other, fo as to render it difficult to get out of it:

There is mention made of feveral of thofe edifices among the ancients; but the moft celebrated are the Egyptian and the Cretan labyrinths.

That of Eqypt, according to Pliny, was the oldeft of all the known labyrinths, and was fubfifting in his time after having flood 3600 years. He fays it was built by King Petefucus, or Tithoes; but Herodotus makes it the work of feveral kings: it food on the ionas of the lake Mceris, and confifted of 12 large contiguous palaces, containing 3000 chambers, 1500 of which were under ground.-Straoo, Diodorus Siculus, Piiny, and Mela, fpeak of this monument with the fame -dmiration as Herodotus: but not one of them tells us that it was comftructed to betvilder thofe who
attempted to go over it; though it is manifeft that, Labyrint without a guide, they would be in danger of lofing their way.

It was this danger, no doubt, which introduced a new term into the Greek language. The word labyrinth, taken in the literal fenle, lignifies a circumacribed fpace, interfected by a number of paflages, fome of which crof, each other in every direction like thole in quarries and mines, and others make larger or fimaller circuits round the place from which they depart like the fpiral lines we fee on certain fhells. In the figurative fenfe, it was applied to obfcure and captious queftions, to indirect and ambiguous anfwers, and to thofe difustions which, after long digreffions, bring us back to the point from which we fet out.

The Cretan labyrinth is the moft famed in hiftory or fable; having been rendered particularly remarkable by the flory of the Minotaur, and of Theleus who found his way through all its windings by means of Ariadne's clue. On Plate CCLXXXIX. is exhibited a fuppofed plan of it, copied after a draught given by Meurfius *, *In Crat taken from an ancient ftone.-But what was the real tib. i. nature of this labyrinth, merits a more particular in- cap. 3 . quiry.

Diodorus Siculus relates as a conjecture, and Pliny as a certain fact, that Dædalus conftructed this labyrinth on the model of that of Egypt, though on a lefs fcale. They add, that it was formed by the command of Minos, who kept the Minotaur thut up in it ; and that in their time it no longer exifted, having been either deftroyed by time, or purpofely demolinhed. Diodorus Siculus and Pliny, therefore, confidered this labyrinth as a large edifice; while other writers reprefent it fimply as a cavern hollowed in the rock, and full of winding paffages. The two former authors, and the writers laft mentioned, have tranfmitted to us two different traditions; it remains for us to choofe that which is moft probable.

If the labyrinth of Crete had been conftructed by Dredalus under Minos, whence is it that we find no mention of it, neither in Homer, who more than once fpeaks of that prince and of Crete; nor in Herodotus, who defcribes that of Egypt, after having said that the monuments of the Egyptians are much fuperior to thofe of the Greeks; nor in the more ancient geographers; nor in any of the writers of the ages when Gseece Alourillied?

This work was attributed to Dædalus, whofe name is alone fufficient to difcredit a tradition. In fact, his name, like that of Hercules, had become the refource of ignorance, whenever it turned its eyes on the early ages. All great labours, all works which required more Alrength and ingenuity, were attributed to Hercules; and all thofe which had a relation to the arts, and required a certain degree of intelligence in the execution, were afcribed to Dædalus.

The opinion of Diodorus and Pliny fuppofes, that in their time no traces of the labyrinth exitled in Crete, and that even the date of its deltruction had been forgotten. Yet it is faid to have been vifited by the difciples of Apollonius of Tyana, who was cotemporary with thofe two authors. The Cretans, therefore, then believed that they poffeffed the labyrinth.
"I would requeft the reader (continues the abbef Traveds Barthelemi *, from whom thefe obfervations are ex- of Anacbas

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tracted) to attend to the following panage in Strabo. At Napulia, near the ancient Argos, (fays that judicious writer), are flill to be feen vaft caverns, in which are conftruled labyrinths that are believed to be the work of the Cyclops: the meaning of which is, that the labours of men had opened in the rock paflages which croled and returtied upon themfelves, as is done it quarries. Such, if 1 am not miftaken, is the idea we ought to form of the labyrinth of Crete.
"Were there feveral labyrinths in that ifland? Ansient authors fpeak only of one, which the greater part place at Cnoffus; and fome, though the number is but frall, at Gortyna.
"Belon and Tournefort have given us the defeription of a cavern fituated at the foot of Nount Ida, on the fouth fide of the mourtain, at a fmall difance from Gortyna. This was only a quarry according to the former, and the ancient labyrinth according to the latter; whofe opinion I have followed, and abridg. ed his accourt. Thofe who have added critical. notes to his work, befides this labyrinth, admit a fecond at Cnoflus, and adduce as the principal fupport of this opinion the coins of that city, which reprefent the plan of it, according as the artiffs conceived it. For on fome of thefe it appears of a fquare form, on others round : on fome it is only feetched out ; on otkers it has, in the middle of it, the head of the Minotaur. In the Memoirs of the Academy of Belles Lettres, I have given an engraving of one which appears to me to be of about the $15^{\text {th }}$ century before Chrift, and on which we fee on one fide the figure of the Minotamr, and on the other a rude plan of the labyrinth. It is therefore ceriain, that at that time the Cnoffians believed they were in poffefion of that celebrated cavern; and it a!?o appears that the Gortynians did not pretend to contelt thcir claim, fince they have never given the figure of it on their money.
"The place where I fuppofe the labyrinth of Crete to have been fituated, according to Tournefort, is but one league diflant from Gortyna; and, according to Strabo, it was diflant from Gnoflus fix or feven leagues. All we can conclude from this is, that the territory of the latter city extended to very near the furmer.
"What was the ufe of the caverns to which the name of labyrinth was given? I imagine that they were firt escavated in part by nature; that in fume places fones were extracted from them for building cities; and that, in more ancient times, they ferved for a babitation or afylum to the inhabitants of a diftriet expofed to frequent incurions. In the journey of Amacharlis through Phocis, I have fpuken of two great caverns of Paraafue, in which the neighbouning people took refuge; in the one at the time of the deluge of Dencalion, and in the other at the invafion of Xerxes. 1 here add, that, according to Diodorus Siculus, the moft ancient Cretans dwelt in the caves of Mount lda. The people when inquiries were made on the fpot, faid that their labyrinth was originally only a prifon. It may have been put to this ufe; but it is difficult to believe that, to prevent the efcape of a few unhappy wretclics, fuch immenfe labours would havc been undertaken."

Labtringh of the Ear. See Anatomy.
J. AC, mik. See Mink, Chemistry Index. Yoi., XI. Part II. which a fpecies of infects form cells upon trees, like honeycombs. This is the coccus lacca, Lin. See Estomology Index. In thefe cells remain fome of the lead inferts, which give a red colour to the whole fubllatice of the lac. That called fick lac is the wax adhering to fome of the fmall branches of the tree, and whiclis unprepared. This lac, whes feparated from the adhering fticks, and grofisly powdered, and deprived of its colour by digeftion with menfruums, for the fake of the dyes and other purpofes, is called feed lac; when the ftick lac is freed from impurities by nelting it over a geutle fire, and formed into cakes, it is called lumps lac; and, laftly, that called /bell lac is the cells liquefied, frained, and formed into thin tranfparent lamine. See Dyeing Inder.

The following are fome of the purpofes to which this fubtance is applied.

1. For fealing wax. Take a flick, and heat one end of it upon a charcoal fire; put upon it a few leares of the ftell lac foftened above the fire; keep alternately heating and adding more thell lac until you have got a mafs of three or four pounds of liquefied thell lac upon the end of your flick (in which manner lump lac is formed from feed lac). Knead this upon a wetted hoard with three ounces of levigated cinnabar; form it into cylindrical pieces; and to give them a polift, rub them while hot with a cotton cloth.
2. For japanning. Take a lump of thell lac, prepared in the manner of fealing wax, with whatever colour you pleafe, fix it upon the end of a ftick, heat the polithed wood over a charcoal fire, and rub it over with the hale melved lac, and polifh by rubbing it even with a piece of folded plantain leaf held in the hand; heating the lacquer and adding more lac as occafion requires. 'Their figures are formed by lac, charged with various colours in the fame manner.
3. For varnif. In ornamenting their images and religious hou'es, \&vc. they make ufe of very thin beat lead, which they cover with various vamifhes, made of lac charged with colours. The preparation of them is kept a fecret. The leaf of lead is laid upon a fmooth iron heated by fire below while they fpread the varnifh upos it.
4. For grindfones. Take of river fand three parts, of feed lac walhed one part: mix them over the fire in a pot, and form the mals into the thape of a grindflone, having a fquare hole in the centre, fix it on an axis with liguefied lac, heat the ft me moderately, and by turning the axis it may eafily be formed into an exact orbicular fhape. l'olifhing grindfones are made mily of fuch fand as will pafs eatily through fine muflin, in the proportion of two parts fand to one of lac. This fand is found at Ragimaul. It is compofed of finall angular cryftalline particles tinged red with irou, two parts to one of black magnetic land. The flonecutters, inftead of fand, ufe the powder of a very hard granite called corune. Thefe grindtones cut very fall. When they want to increafe their power, they throw fand upon them, or let them occafionally toreh the edge of a vitrified brick. The fame compoition is formed upon lticks, for cutting floncs, Mells, \&c. by the hand.

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5. For painting. lake one gallon of the red liquid from the firft wafting for thell lac, frain it through a cloth, and let it boil for a fhort time, then add half an ounce of foap earth (foffil alkali); boil an hour more, and add three ounces of powdered load (bark of $2 \operatorname{trcc})$; boil a foort time, let it fland all night, and Ilrain next day. Evaporate three quarts of milk without cream to two quarts upon a flow fire, curdle it with four milk, and let it fland for a day or two; then mix it with the red liquid above mentioned; frain them through a cloth, add to the misture one ounce and a half of alum, and the juice of eight or ten le2::ons: mix the whole, and throw it into a cloth bag itrainer. The blood of the infect forms a coagulum with the cafoous part of the milk, and remains in the bag, while a limpid acid water drains from it. The coagulum is dried in a flade, and is ufcd as a red rolour in painting and colouring.

The method of obtaining the fine red lac uled by painters from this fubfance, is by the following fimple procefs: Boil the ftick lac in water, filter the decoction, and evaporate the cleat liquor to drynefs over a gentle Tire. The occafion of this eafy feparation is, that the beautiful red colour here feparated, adheres only dightly to the outlides of the fticks broke ofl the trees along with the gum lac, and readily communicates itfelf to boiling water. Some of the fticking matter alfo adhering to the gum itfelf, it is proper to boil the whole together; for the gum does not at all prejudice the colour, nor liffolve in boiling water: fo that after this operation the gum is as fit for making fealing wax as before, and for all other ufes which do not require its colour.

## 6. For dyeing. See Dyenng Index.

Lac is likewife employed for medicinal purpoles.The flick lac is the fort ufed. It is of great eftcem in Germany, and other countries, for laxity and fponginels of the gums proceeding from cold or a forbutic habit: for this ufe the lac is boiled in water, with the addition of a little alum, which promotes its folution; or a tincture is made from it with rectified pipit. This tincture is recommended allo internally in the fluor albus, and in rheumatic and fcorbutic diforders: it has a grateful fmell, and not unpleafant, bitterih, aftringent tafte.

The gum-lac has been ufed as an electric, inftead of slafs, for clectrical machines. See Lacquer, Lake, and Varcish.

Artificial Lacca, or Lacque, is alfo a name given to a coloured fubftance drawn from feveral flowers; as the yellow from the flower of the juniper, the red from the poppy, and the blue from the iris or violet. The tinstures of thefe flowers are extracted by digefting them feveral tines in aqua vitæ, or by boiling them uver a flove fire in a lixivium of pot afhes and alum.

An artificial lacea is alfo made of Brafil wood, boil. ed in a lixivium of the branches of the vine, adding a little cochincal, turmeric, calcined alum, and arfenic, incorporated with the bones of the cuttle fifh pulverized and made up into little cakes and dried. If it be to be very red, they add the juice of lemon to it; (0) makefit brown, they add oit of tartar. Dove-coloured or columbine lacca is made with Brafil of Fernambuc, flecped in diffilled vinegar for the ipace of a month, and mixed with alum incorporated in
cuttle filh bone. For other proceffes, Sec Corour. Making.

LACE, in Commerce, a work compofed of many threads of gold, filver, or lilk, interwoven the one with the other, and worked upon a pillow with findles according to the pattern defigned. The open work is formed with pins, which are placed and difplaced as the fyindies are moved. The importation of gold and filver lace is prohibited.

Method of Cleaning Gold-Lace and Embroidery whien farmified.-For this purpofe alkaline liquors are hy no nieatis to be ufcd; for while they clean the rold, they corrode the filk, and change or dilcharge its colour. Soap alfo alters the thade, and even the fpecies, of certain colours. But fpirit of wine nay be ufed without any danger of its injuring either the colour or quality of the fubject ; and in many cafes proves as effecqual, for reltoring the luftre of the go?d, as the corrofive detergents. A rich brocade, flowered with a variety of colours, after being difagreeably tamihed, had the luftre of the gold ferfectly refored by walling it with a foft brufh dipt in warm firit of wine; and fome of the colours of the filk, which were likewife foiled, lecarre at the fame time remarkably bright and livels. Spirit of wine feems to be the only material adapted to this intention, and probably the boafled fecret of certain artilts is mn other than this lpirit difguifed. A. mong liģuids, Dr Lewis fays, he does not know of any other that is of fufficient activity to difcharge the fon! matter, without being hurtful to the filk : as to powders, however fine, and howeser cantioully ufed, they foratch and wear the gold, which here is only fupetficial and of extreme tenuity.

But though Cirit of wine is the moft innocent material that can be employed for this purpofe, it is not in all cafes proper. The golden covering may be in fome parts worn off; or the Gafe metal, with which it had been ininuitoully alloyet, may be corroded by the air, fo as to leave the particles of the gold difunited; while the filver underneath, tarnifhed to a yellow lue, may continue a tolerable colour to the whole; in which cales it is apparent, that the removal of the tarnifis would be prejudicial to the colour, and make the lace or embroidery lefs like gold than it was before. A piece of old tarnihhed gold lace, cleaned by the fpirit of wine, was deprived, with its tarnilh, of the greateft part of its golden hue, and looked now almof like filver lace.

Method of feparnting the Gold and Siluer from Lace without lurning it. Cut the lace in pieces, and (having feparated the thread from it by which it was fewed to the garment) tie it up in a linen cloth, and boil it in Coap ley, diluted with water, till you perceive it is diminilhed in bulk; which will take up but a little time, unlefs the quantity of lace be very confiderable. Then take out the eloth, and wath it feveral times in cold water; fqueezing it pretty hard with your foot, or beating it with a mallet, to clear it of the foap ley; then untie the cloth, and you will have the metallic part of the lace pure, and nowhere altered in colour or diminifhed in weight.

This method is abundantly more cosvenient and lefs troublefome than the common way of burning; sud as a tinall quantity of the ley will be fufficient, the

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expence will be trifling, efpecially as the fame ley may be ufed feveral times, if cleased of the filky calcination. It may be done in either an iron or copper veffel.

The ley may be had at the foap boilers, or it may he made of pearl aith and quicklime boiled together in a fufficient quantity of water.

The reafon of this fudden change in the lace will be cvident to thole who are acquainted with chemilley: for filk, on which all our laces are sove, is an animal fubftance, ond all animal fubltances are foluble in alkalies, efpecially when rendered more cauftic by the addition of quicklime; but the linen you tie it in, being a vegetable, will remain unaltered.

Blond-LASF, a lace made of fine linen thread or filk, much in the fame manner as that of gold and filver. The pattorn of the lace is fixed upon a large round pillow, and pins being fuck into the holes or openings in the patterns, the threads are interwoven by means of a number of bobbins made of bone or ivory, each of which contains a fmall quantity of fine thread, in fuch a manner at to make the lace exactly refermble the pattern. There are feveral towns in England, and particularly in Buckinghaminhire, that carry on this manufâure ; but vaft quantities of the finef lace have been imported from Flanders.

LACED EMION, in fabulous hiftory, a fon of Jupiter and Tayget the daughter of Atlas, who married Sparta the daughter of Europa, by whom he had Amyclas and Eurydice the wife of Acrifius. He was the firf who introduced the worlhip of the Graces in Laconia, and who fiff built them a temple. From Lacedæmon and his wife, the capital of Laconia was called Lacedemion and Sparta.

Lacediemos, a noble city of Peloponnefus, callled alio Sporta; thefe names differing in this, that the latter is the proper and ancient name of the city, the former of the country, which afterwards rame to be applied to the city (Strabo, Stephanus.) Homer alfo makes this diflinctiun; who calls the country holy, becaufe encompalfed with mountains. It has alfo been feverally known by the name of Lelegia, from the Leleges the firit inhalsitants of the country, or from Lelex one of their kings; and Oebalia, from Debalas the fixth king from Eurotas. It was allo called Hecatompolis, from 100 cities which the whole province once contained. Shis city was the capitnl of Laconia, fituated on the right or weft fide of the Eurotas: it was lefs in compafs than, however equal, or even fuperior to. Athens in power. Polybius maties it 48 fadia, a circuit much inferior to that of Athens. Lelex is fuppofed to have been the firft king of lacedæmon. His defcendants, 13 in number, reigned fucceflively after him, till the reign of the fons of Oreftes, when the Heraclidre recovered the Peloponnefus about 80 years after the Trojan war. Procles and Eurythenes, the defcendants of the Heraclidx, ufurped the crown together; and after them it was decreed that the two families thould always fit on the tirone together. The monarchical power was abolifhed, and the race of the Heraclidæ extinguifted at Sparta about 219 years before Chrift. Lacedxmon in its fourihing ftate remained without walls, the bravery of its citizens being inftead of them (Nepos). At length in Caffander's time, or after, when the city was ia the bands of tyrants, diftufting the defence by arms and
bravery, a well was built round it, at firft flight, and Lacernx in a tumultuary or hally manner; which the cyrant If Nabis made very ftrong (Livy, Jullin). Paulanias Lathrymaafcribes the firft walls to the times of Demetrius and lors. Pyrrhuf, under Nabis. The walls of the city were pulled down 158 yars before Chrill by Philopumen, who was then at the head of the Achean league, and Laconia fome tire after became-a Roman province When reduced by Mummius. See Sparta.- ' 'he prefent city is called Mifira, fituated in E. Long. 23.0. N. Lat. 36. 55.

LACERNA, a coarfe thick garment worn by the Romans over their gowns, like a cloak, to heep off the rain and cold. It was firf ufed in the camp, but afterwards admitted into the city. The emperors wore the lacerna of a purple dye. The lacerna was at filt very fhort, but was lengthened after it became fa'hionable, which was not till the civil wars and the triumvirate; before this time it was confined to the foldiers. Senators were forbidden wearing it in the city by Valentinian and Theodofus. Martial makes mention of lacernæ worth 10,000 fellerces. Some confound this garment with the penula; but it feems rather to have refembled the chlamys and birrus.

LACERTA, including the hizARD, crocodile, \&c. a genus of amphibious animals, belonging to the order of rejtilia. See Erpetorogy Index.

LACHES, (from the French lafcher, i. e. laxare, or lafche, ignazus), in the Englih law frgnifen nacknefs or negligence, as it appears in Littleton, where laches of entry is a neglen of the heir to enter. And probably it may be an old Englith word: for where ne fay there is laches of entry, it is all one as if is were faid there is a lack of entry: and in this fignifi. cation it is ufed. No loches flall be adjudged in the heir within age ; and regularly, lackes fiall not bar infants or femme coverts for not entry or claim, to avoid defeents; but laches flall be accounted in them for nom-performance of a condition annexed to the fate of the land.

LACHESIS, in Myihology, one of the Parcie: Her name is derived from $\lambda . \alpha \chi^{\text {s.rr, }}$, to meafure oult by lo:。 She prefided over futurity, and was reprefented as finning the thread of life, or, according to others, holding the fpindle. She generally appeared covered with a garment variegated with ftars, and holding fpindles in her hand.

LACHISH, in Ancient Geography, a city fouthward of the tribe of Judah. Eufebius and St Jerome tell us, that in their time there was a village called Lochifh, feren miles from Eleutheropolis, fouthward. Sennacherib befieged Lacniih, but did not take is. From thence it was that he fent Rabirakeh againft Jcrufalem. Here King Amaziah was lain by his rebel fubjects.

LACHNEA, a genus of plants belonging to the octandria clafs, and in the natural method ranking under the 31 ft order, Vepreculce. See Botany Index.
I.ACHRYMAI, in Anatomy, an appellation given to feveral parts of the eye. See Anatomy.

LACHRYMATORY, in antiquity, a veffel wherein were collected the tears of a deceafed perfon's friends, and prefersed along with the athes and urn. They were fmall glafs or earthen bottles, chiefiy in the form of phials. At the Roman funerals, the friends

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Lacinium of the deceafed, or the praficie, women hired for that 11 Lucquers. purpofe, ufed to fill them with their tears, and deponte them rery carefully with the athes, in teftimony of their forrow, imagining the manes of the decealed were thereby gr atly comforted. Many fpecimens of them are preferved in the cabinets of the curious, particularly in the Britill Mufeum.

LACINIUM, in Ancient Geogrophy, a noble promontory of the Buttii, in Italy, the fouth boundary of the Sinus Tarentinus and the Adriatic; all to the feuth of it being deemed the Ionian fea: it was famous for a rich temple of Juno, furnamed Lacinin, with a pillar of folid gold Itanding in it ; which Hannibal intending to carry off, was, according to Cicero, dilluaded by a dream. Nor: Capo delle Colonne, from the columns of Juno's temple ftill itanding on the north-eall coall of Calabria Ultra.

LACK OF RUPEES, is 500,000 rupees; which fuppofing them ftandard, or fiecas, at 2s. 6d. amounts to 32,5001 . flerling.

LACMUS, a dye fuff prepared by the Dutch from the Lichen roccella. See Dyfing Index.

LACONIA, or Laconica, a country in the fouthern parts of Peloponnefus, having Argos and Arcadia on the north, Meffenia on the weft, the Me. diterranean on the foutl, and the bay of Argos on the eaft. Its extent from north to fouth was about 50 miles. It was watered by the river Eurotas. The eapital was called Sparta, or Lacedæmon: (Sce LaceDemon and Sparta.) The brevity with which the Laconians always expreffed themfelves is now become proverbial; and by the epithet of Laconic we underlland whatever is concife, and is not loaded with unnecefliary words.
L.ACONIUM, (whence ous term laconic), a fhort pithy fententious fipeech, fuch as the Lacedrmonians were remarkable for: Their way of delivering themfelves was very concife, and much to the purpofe. See the pleceding article.

LACQUERS, are varniflhes applied upon tin, braf!, and other metals, to preferve them from tarnifhing, and to improve their colour. The bafis of lacquers is a folution of the retinous fubftance called feed lac, in fpirit of wine. The fpirit ought to be very Arong, in order to diffolve much of the lac. For this purpofe, fome authors direct dry potah to be thrown into the fpixit. 'I'his alkali attracts the water, with which it forms a liquid that fubfides diftinctly from the fpirit at the botton of the veffel. From this liquid the firit may be 1eparated by decantation : but by this procefs the finitit is impregnated with part of the alkali, which depraves its colour, and communicates a property to the lacquer of imbibing moifture from the air. Thefe inconveniences may be prevented by diftilling the firit; or, if the artift has not an opportunity of performing that procefs, he may cleanfe the fpirit in a great meafure from the alkali, by adding to it fome calcined alum ; the acid of which uniting with the alkali remaining in the Ipirit, forms with it a vitriolated tartar, which, not being foluble in fpirit of wine, falls to the bottom together with the earth of the decompofed alum. To a pint of the purified $f_{\text {pirit, }}$ about three ounces of powdered Shell lac are to be added; and the mixture to be digeiled during fame day with a moderate heat. The li-
quor ought then to be poured off, Atrained, and cleared by fettling. This clear liquor is now fit to receive the required colour from certain refinous colouring fubtances, the principal of which are gamboge and anotto; the former of which gives a yellow, and the latter an orange colour. In order to give a golden colour, two parts of gamboge are added to one of anotio ; but thefe colouring fubitances may be feparately difiolved in the tineture of lac, and the colour required may be adjulled by mising the two folutions in different proportions. When filver leaf or tin are to be lacquered, a larger quantity of the colouring materials is requifite than when the lacquer is intended to be laid on brafs.

LACSHA, the Indian name of the lac infect. See Lac, Chemistry and Dyeing Index.

LACTATIO, Lactation, ameng medical writ- Motberby ers, denotes the giving fuck. The mother's bieaft, if Medital pofible, Thould be allowed the child, at leaft during Dithionar: the firft month; for thus the child is more peculiarly benefited by what it fucks, and the mother is preferved from more real inconveniences than the falfely delicate imagine they would fufter by compliance herewith : but if by reafon of an infirm conftitution, or other caufes, the mother cannot fuckle her child, let dry nurling under the mother's eye be purfued.

When women lofe their appetite by giving fuck, both the children and themfelves are thereby injured; wet nurfes are to be preferred, who, during the time they give the breaft, have rather an increafed appetite, and digeft more quickly; the former are apt to walte arway, and fometimes die confumptive. In thort, thofe nurfes with whom lactation may for a while agree, thould wean the child as foon as their appetite leffens, their ffrength feems to fail, or a tendency to hylleric fymptoms is manifent.

When the new born child is to be brought up by the mother's breaft, apply it thereto in ten or twelve hours after delivery : thus the milk is fooner and more eafily fupplied, and there is lefs hazard of a fever than when the child is not put to it before the milk begins to How of itfelf.

If the mother does not fuckle her child, her breafts fhould be kept fo warm with flanels, or with a hare fkin, that a conflant perfpiration may be fuppoted; thus there rarely will arife much inconvenience from the milk.

The child, notwithftanding all our care in dry nurfing, fometimes pines if a breaft is not allowed. In this cafe a wet nurfe fhould be provided, if poffible one that bath not been long delivered of a child. She fhould be young, of a healtily habit, and an active difpofition, a mild tem.er, and whofe breafts are well filled with milk. If the milk is good, it is 「weetifl to the tafte, and totally free from faltnefs; to the eye it appears thin, and of a bluifh caft. That the woman hath her menfes, if in other refpects objections be not made, need not be any; and as to the cuftom with many, of abftaining from venery while they continue to fuck le a child, it is fo far without reafon to fupport it, that the truth is, a rigorous chaftity is as hurtful, and often more perniciouc, than an immoderate ufe of venery. A mongf the vulgar errors, is that of red-haired women being inproper for wet nurfes.

ctanatius If the menfes do not appear during the firft months, but after lix or eight months fuckling they begin to defcend, the child hould be weaned.

W'et nurles fhould eat at lea?t one hearty meal of animal food every day; with this a proper quantity of vegetables thould be mixed. This bioth or milk are proper for their breakfafts and their fuppers; and if the frength thould feem to fail a little, a draught of good ale thould now and then be allowed: but firituous liquors mull in general be forborne; not but a fpoonful of rum may be allowed in a quart of milk and water, (i. e. a pint of each), which is a proper common drimk.

Though it is well obferved by D. Hunter, that the far greater number of thufe women who have cancers in the brealt or womb are old maids, and thofe who refufe to give fuck to their children; yet it is the urhappinefs of fome willing mothers not to be able: for inftance, thofe with tender conftitutions, and who are fubject to nervous diforders; thofe who do not eat a fuffcient quantity of folid food, nor enjoy the benefit of exercife and air: if children are kept at their breafts, they either die while young, or are weak and fickly after childhood is palt, and fo on through remaining life.

LACTANTIUS, Lucius Coelius Firnianus, a ceiebrated author at the beginning of the 4th century, was, according to Baronius, an African; but, according to others, was born at Fermo in the marquifate of Ancona, from whence it is imagined he was called Firmianus. He fludied rhetoric under Arnobius; and was afterwards a profeffor of that fcience in Alrica and Nicomedia, where he was fo admired, that the empcror Conitantine chofe him preceptor to his fon Crifpus Cæfar. Lactantius was fo far from feeking the pleafures and riches of the court, that he lived there in poverty, and, according to Eufebius, frequently wanted neceffaries. His works are written in elegant Latin. The principal of which are, 1. De ira divina. 2. De operibus Dei, in which he treats of the creation of man, and of divine providence. 3. Divine Inftitutions, in feven books: this the moft confiderable of all his works: he there undertakes to prove the truth of the Chrifian religion, and to refute all the difficulties that had been raifed againft it; and he folidly, and with great ftrength, attacks the illufions of Paganifm. His fisle is pure, clear, and natural, and his expreflions noble and elegant, on which account he has been called the Cicero of the Chrifians. There is alfo attributed to him a treatife De morte perfecusorum; but feveral of the learned doubt its being written by Lactantius. 'The mol copious edition of Lactantius's works is that of Paris in 1748, 2 vols. $4^{\text {to. }}$

Lacteals, or Lacteal V'essels, a kind of long llender tubes for the conveyance of the chyle from the inteftines to the common refervatory. See Anatoily, $\mathrm{N}^{\circ} \mathrm{ioj}$.

LACTIFEROUS, an appellation given to plants abounding with a milky juice, as the fow thiftle and the like. The name of lactiferous, or lactefcent, is given to all thofe plants which abound with a thick coloured juice, without regarding whether it is white or not. Mof lactiferous plants are poifonous, except thofe with compound flowers, which are generally of an innocent quality.

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Of the poifonous lackelcent plants the moft remark- Lactuea able are fumach, agaric, maple, burning thorny plant, caflada, celandine, puccoon, prickly poppy", and the plants of the natural order contorta, as fwallow-wort, apocynum, cynanchum, and cerbera.

The bell-fhaped flowers are partly noxious, as cardinal flower; partly innocent, as campanula.

Among the lactefcent plants with compound fowers that are innocent in their quality, may be mentioned dandelion, picris, hyoferis, wild lettuce, gum fuccory, hawkweed, baftard hawkweed, hypochueris, goat's beard, and moft fpecics of lettuce: we lay molt fpecies, becaufe the prickly fpecies of that genms are faid to be of a very virulent and poifonous mature; though Mr Lightfoot denies this, and affirms that thiey are a fafe and gentle opiate, and that a fyrup made from the leaves and ftalks is much preferable to the common dia. codiam.

LACTUCA, Lettuce, a genus of plants belonging to the fyngenelia clafs; and in the natural method ranking under the $49^{\text {th }}$ order, Compofite. See Botasy Index. And for the method of cultivating lettuce fee Gardening Index.

LACUN A, in Anatomy, certain excretory canals in the genital parts of women.

LACUNAR, in Architeçure, an arched roof or ceiling, more efpecially the planking or flooring above porticos or piazzas.

LACYDES, a Greek philofopher, born at Cyrene, was the difciple of Arcefilaus, and his fucceffor in the academy. He taught in a gaiden given him by Attalus king of Pergamus; but that prince Sending for him to court, he replied, "That the pidures of kings thould be viewed at a diftance." He imitated his mafter in the pleafure he took in doing good with. out caring, to have it known: he had a goofe which followed him everywhere by night as well as by day; and when the died, he made a funeral for her, which was as magnificent as if it had been for a fon or a brother. He taught the fame dodtrine as Arcefikus; and pretended that we ought to determine nothing, but always to fufpend our opinion. He died 212. B. C.

LADDER, a frame made with a number of fteps, by means of which people may afcend as on a fiair to places otherwife inacceflible

Scaling LADDERS, in the military art, are ufed m fcaling when a place is to be taken by furprife. They are made feveral ways: here we make them of Hat ftaves, fo that they may move about their pins, and Thut like a parallel ruler, for conveniently carrying them: the French make them of feveral pieces, fo as to be joined together, and to be made of any neceffary length: fometimes they are inade of fingle ropes, knotted at proper dillances, with iron hooks at each end, one to faften them upon the wall above, and the other in the ground; and fumetimes they are made with two-ropes, and taves between them, to keep the sopes at a proper difance, and to tread upon. Whon they are ufed in the acion of fcaling walls, they ought to be rather too long than too thort, and to be given in charge only to the llontert of the detachment. The foldiers foould carry thefe ladders with the left arm paffed through the fecond fep, taking care to hold them upright clofe to their fides, and

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Laden very faort belor, to prevent any accident in leaping II Ladóa. into the ditch.

The firlt rank of each dirifion, provided with lad-
ders, flould let out with the reft at the fignal, marchirg refolutely with-their firelocks flung, to jump into the ditch; when they are arrived, they hould apply their ladiders againft the parapet, obferving to place them towards the falient angles rather than the middle of the curtain, becaufe the enemy have lefs force there. Care mult be taken to place the ladders within a foot of each other, and not to give them too much nor :oo little flope, fo that they may not be overturned or broke with the weight of the foldiers mounting upon them.

The ladders being applied, they who have carried them, and they who come after, fhould mount up, and ruft upon the enemy fword in-hand: if he who goes firt, happens to be overturned, the nest thould take care not to be thrown down by his comrade; but, on the contraty, immediately mount him!clf, fo as not to give the enemy time to load his piece.

As the foldiers who mount firt may be eafly tumbied oucr, and their fall may caufe the attack to fail, it would perhaps be right to protect their brealts with the fore parts of cuirafles; becaufe, if they can penetrate, the refl may eafily follow.

The fuccefs of an attack by fcaling is infallible, if they mount the four fides at once, and take care to thower a number of grenades amongh the enemy, efpecially when fupported by fome grenadiers and picquets, who thare the attention and fire of the enemy.

LADEN, in the fea language, the flate of a lhip when the is charged with a weight or quantity of any fort of merchandifes, or other materials, equal to her tomnage or burden. If the cargo with which the is Jaden is exiremely heavy, her burden is determined by the weight of the goods; and if it is light, the carries as much as the can Now, to be fit for the purpofes of navigation. As a ton in meafure is generally eftimated at 2000 b . in weight, a veffel of 200 tons ought accordingly to carry a weight equal to $400,0001 \mathrm{~b}$. when the matter of which the cargo is compofed is fpecifically heavier than the watcr in which fhe floats; or, in other words, when the cargo is fo heavy that llie cannot float ligh enough with fo great a quantity of it as her hold will contain.

LADEN in Bu/k, the fate of being freighted with a eargo which is neither in cafks, boxes, bales, nor cafes, but lies loofe in the hold; being defended from the moilture or wet of the hold, by a number of mats and a quantity of dunage. Such are ufually the cargoes of corn, falt, or fuch materials.

LAIJENBURG, a town of Germany in the palatinate of the Rhine, leated on the river Neckar, in E. Long. 8. 42. N. Lat. 49. 27. It belongs to the $^{2}$ himopric of Worms, and the elector Palatine.

LADISLAUS, the name of feveral kings of Poland. See Polanid.

LADOGA, a lake in Ruffia, between the gulfs of Onega and Finland, meafuring 150 miles by 90 , and confidered as the larget in Europe. Seals are among the fill with which it abounds. It is full of quick fands, which often prove fatal to the Ruffian flat-bottomed veffels; thefe fands often mifting from place to Hace by violent forms, and forming a number of fitlves.

On this account Peter the Great cut a canal 6 , miles Lado in lengt? from the fouth-weft extremity of the lake, thus opening a communication between it and the gulf Ladre of Finland.

Labogn, New, a town in the Kuflay government of Peteriburgh, feated on the Vollibof, between the canal and lake of Ladoga. (Old Ladoga is higher up the river, and a place of no great extent. Thee former is 70 miles eaft of Peterfburgh, in N. Lst. $60^{\circ}$. E. long. 30.32.

LADOGNA, or Lacedogsi, a town of Italy in the kingdom of Naples, and in the Capitanata, with a bifhop's fee. E. Long. 15.12. N. Lat. 41. 16.
1.ADON, in Ancient Geograpluy, a viver of Arcadia falling in the Alifheus. The metamorphofis of Daphue into a laurel, and of Syrinx into a reed, happened near its banks.

LADRONE or Marist: iflands, a clufter of twelve illands lying in the Pacific ocean, in about $145^{\circ}$ of eaft longitude, and between the 11 th and 21 ft degree of north latitude. They were frit difcovered by Magellan, who failed round the world through the fraits which bear his name. He gave them the name of Ladrone iflanas, or the iflands of Thieves, from the thievith difpofition of the inhabitants. At the time thefe illands were difcovered by the Europeans, the natives were totally unacquainted with any other country befides their own; and having no traditionary accounts of their own origin, they imagined that the author of their race was formed of a piece of the rock of Funa, one of their fmalleft illands. Many things looked upon by us as abfolutely neceffary to our exiltence, were utterly unknown to thefe people. They had no animals of any fort; and would not even have had any idea of them, had it not been for the birds; and even of them they had but one fecics, fomewhat like the turtle dove, which they never killed for eating, but only tarnod them, and taught them to fpeak. They were much aftonifhed on leeing a horfe which a Spanifh captain left among them in 1673 , and could not for a long time be fatisfied with admiring him. But what is more furprifing and incredible in their hiflory is, that they were utterly unac. quainted with the element of fire till Magellan, provoked by their repcated thefts, burned one of their villages. When they faw their wooden houfes blazing, they firft thought that the fire was a beaft which fed upon the wood; and fome of them who came too near, being burnt, the reft flood at a diftance, left they thould be devoured or poifoned by the breathings of this terrible animal.

The inhabitants of the Ladrones are olive coloured, but not of fuch a deep dye as thofe of the Philippine iflands; their flature is good, and their limbs well? propertioned. Though their food confifts entirely of finh, fruits, and roots, yet they are fo fat, that to Atrangers they appear fiwelled; but this does not render them lefs nimble and active. They often live to 100 years or more, yet retain the health and vigour of men of 50 . The men go flark naked, but the women are covered. They are not ill looked, and take great care of their beauty, though their ideas on that fubject are very different from ours. They love black teeth and white hair. Hence one of their principal occupations is to kecp their tecth black by the help of

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arone. certaia herbs, and to whiten thair hair, furimking upon it a certain water for this purpofe. The women have their hair rery long; but the men generally fhave it cle fe, excent a lingle lock on the crown of the head, ariet the manner of the Japanefe. Their languase much refembles that of the people called Tagales in the Philippine ifnds: It is agrecable to the ear, with - fuft and caly pronunciation. One of its chief giaces confils in the facility of tanfofing words, and even all the fyllables of one word; and thus furnithing a variety of double meanines, with which thefe people are greaty delighted. Thoug's phorged it the deepeft icho:ance, at d deflitute of everything valued by the re? of makind, no nution ever flowed more prefumption or greater conceit of themflyes, than thefe illanders, looking on their own nation as the only wife, fenfible, and polithed one in ti:e world, and bcholding every other people with the greatelt contempt. Though they are ignorant of the arts and fciences, yet, iike every othet nation, they have their fables which ferse them for hitory, and tome poems which they greatly admice. $\Lambda$ poet is with them a character of the fint eminence, and greatly refpected.

It is not known at what time, or from what place, the Ladrone illands were firt peopled. As I Ipaz lics within fix or feven days lail of them, fome have been induced to believe, that the firit iuhabitamts of the Ladrones came from Japan. But from their greater refemblance to the inhebtants of the Philippine illands than to the Japanefe, it is more probable that they came from the former than the latter. Formerly moft of the iflands were inhabited ; and about 90 y ars ago, the t?ree principul illands, Guam, Tinian, and Rota, are faid to have contained $; 0,000$ people; but fuce that time, Tinia:i has been entircly depopulattd, and oniy 200 or 300 In Lians left at Rota to cultivate rice for the illand of Guam, which alone is inhabited by Europeans, and where the Spaniards have a governor and a.garrifon: hete alfo the ammal Nianilla thip touches ior refrethments in her palage fro:n $A$ capulco to the Philipfines. The illand of Tinian afforded an afyium to Commosore Anfon in $1 \nmid \nmid 2$; and the mafleriv manner in which the author of that vo age paints the natural beauties of the cour.try, has given a degree of ellimation not only to this ifland, but to all the reft, which they had not befure. Commodore Byron, in 1,65 , coytinued nine weeks at Ti nian, and anchored in the very fot where the Centurion lay; but gives a much lefs favourable account of this climate and couniry than the former navigator. The vater, he fays, is brackifh, and tull of worms; many of his men were feized with fevers, occafioned by the intenie heat; the thermometer, which was kept on board the fhip. Generally Hood at $86^{\circ}$, which is but 10 or 11 dearees lefs than the beat of the hlood at the heart ; and had the infrument been athore, tie imagines it would hare food much higher than it did. It was with the greatcit difficuley that they could penetrate thresgh the roods; and when they had forte. natcl; killed a bull, and with prodigious labour dragged it through the forefts to the beach, it ftunk, and was full of fly-blous by the time it reachod the thore. 'The poultry was ill taiked; and within an hour after it was kiled, the tlelli became as grecu as grafs, and formed with maggots. The wild hogs were very
fierce; and io large, that a carcafs frequently weighed 200 pounds. Cotton and indigo were found on the illand. Captain Wallis continued here a month in 1767, but makes no fuch cumplaints.
l.ADY. This title is derived from two Suxom words, which fignify locifalay, which words have in time been contracted into the prefent appellation. It properly belongs only to the daughters of eatls, and all of higher 1 ank; but cullom has made it a word ot complaifance for the wives of knights and of all eminert women.

As to the original application of this exprefion, it may be obicrved, that heretofore it was the fathion for thofe families, whom God had bleffed with afluence, to live conftantly at their manfion houfes in the country, and that once a-week, of oftener, the lady of the manor diltributed to hes poor neighbours, with her own hards, a certain quantity of bread; but the practice, which gave iife to this title is now as litile known as the meaning of it; howcver, it may be from that holpitable cullom, that to this day the ladies in this king dom alone terve the meat at their orm table.

Ladr's Esfifaix. See Gilium,
Ladr's Mantie. See Alchemilla, Botiny
Ladr"s Smsee. Sec Cirdamine,
$\begin{array}{ll}\text { Ladr's Slipper. } & \text { See Cypripediung, }\end{array}\left\{\begin{array}{l}\text { Iide.t.. } \\ \text { Ladr's Traces. }\end{array}\right.$
Libr Day, in Law, the 25 th of Narch, being the anmmeiation of the Holy Virgir. Sce Anvuscaation.

Le ELIUS, Caius, a Roman conful and great orator, furnamed the $1 \$_{i / e}$, dillinguihed himfelf in Spaia in the war againd Viriathus the Spanilh general. He is highly prailed by Cicero, who gives an admirable delcription of the intimate friendfhip which fubfifted between I.xlius and Scipio Africanus the Younger. His eloquence, his modefty, and his abilities, acquired hims a great reputation; and he is tlought to have affifed Terence in his comedies. He died alou: the year $126 \mathrm{~B} . \mathrm{C}$.

LINNA, in antiquity, was a gowis worn by the Roman augurs, and peculiar to their office. lin this gown they covered their heads, when they made thei obiervations on the tight of birds, \&ic. See Augur.

LAER. See Baniboctia.
LESCRYGONES, the moll ancient inhabitants of Sicily. Some fuppofe them to be the fame as the people of Leontium, and to have been neighbours to the Cyclops. They fed on human Heft; and when Ulyffes carse on their coafts, they funk his h.ips and deroured his companions. 'Ilacy were of a gigantic flature, according to Homer's defcription. A colony of them, as fome fuppofe, pafed over ino Italy with Lamus at their head, where they built the tow: of Formix, whence the epithet o: Lacerygonia is ofie:? ufd for that of Formiana.

L EEME 1 , a genu of plants belonging to the poiyandria clits, and in the natural methad ramking with thuefe of which the order is doubtful. See Botaris Index.

LAEVINUS, Torrentinus, commonly callel laizder Bekin, of Torrenith, was a native of Ghent, and bred in the univerlty of Louvain. He atierwards made the tour of Italy, where his virtucs obtained hira the frendihin of the moid illufrious pcrionages of his
time. On his return to the Low Countries; he was made canon of Liege, and vicar-general to Erneli de Baviere, bilhop of that fee. At length, having executed a fucceffful embaffy to Philip 11. of Spain, he was rewarded with the bilhopric of Antwerp; frun. whence he was tranflated to the metropolitan church of Nechlin, and died there in 1595 . He founded a cullege of Jefuits at Louvain, to whish he left his lilurary, medals, and curiofities. He wrote feveral poems that obtained him the character of being, after Horace, the prince of lyric poets.

LEVIUS, a Latin poet. It is not well known at what time he lived, but probably before the age of Cicero. A poent of his, entitled Erotopagnia, i. e. Lore-Games, is quoted by Aulus Gellius. Apuleius alifo quotes fix lines from the fame poet; but he does not tell from what work he borrowed them. Lietius had alfo cempofed a poem entitled The Centaurs, which Feftus quotes under the title of Petrarus:.

LAGAN, or Lagon. See Flotsom.
LAGEMAN (lagammiannus), homo habens legom, or homo legalis fen legitimus; fuch as we call now "good men of the jury." The word is frequently ufed in Domefday, and the laws of Edward the Confeflor, cap. 38 .

LAGEN (Lageria), in ancient time, was a meafure of wine, containing fix fextarii: whence probably is derived our flagon. The lieutenant of the tower has the privilege to take unam lagenam vimi ante malum et retro, of all wine fhips that come upon the Thames; nnd Sir Peter Leicelter, in his Antiquities of Chellbire, interprets lagena vini, " a bottle of wine."

LAGERSTROEM1A, a genus of plants belonging to the polyandria clafs. See Botany Index.

LAGNY, a town of the Ifle of Fr nce, with a famous BenediAtine abbey. It is feated on the river Marne, in E. Long. 2 45. N. Lat. 48. 50.

LAGOECIA, a genus of plants belonging to the pentandria clafs. See Botany Index.
L. AGOON, an ifland in the South fea, lying in S. Lat. 18. 47. W. Los.g. 139. 28. It is of an oval form, with a lake in the middle, which occupies much the greateft part of it. The whole is covered with trees of different growth. It is inhabited by a race of Indiars, tall, of a copper colour, with long black hair. Their weapons are poles or fpikes, which are twice as Iong as themfelves. 'Their habitations were feen under fome clumpe of palm trees, which formed very beautiful groves. 'llis illand was difcovered by Captain Cook in April 1769.

Lagopus, the Ptarmigan. Sce Tetrao, OrNithology Indcx.

LAGOS, a fea fort torm of Portugal, in the province of Algarva, with a cafle near the fea, where there is a good harbour, and where the Englifu fleets bound to the Straits ufually take in freflı watys. W. Long. 8. 5. N. Lat. 36.45.

LAGUNA, or San Chriftaval de Laguna, a confiderable town in the ifand of Tenerifie, near a lake of the farme name, on the declivity of a hill. It has very fandfome buildings, and a fine fquare. W. Long. 15. 24. S. Lat. 28. 30.

LAGUNES of Vekicf, are marn:es or lakes in Italy on which Venice is feated. They communicate
with the fea, and are the fecurity of the city. There are about 60 illands in thele Lagunes, which together make a bilhup's fee. Eurano is the moft confiderable, . uext to thofe on which Venice flands.

LAGURUS, a genus of plants belonging to the triandria clafs, and in the natural method ranking under the th order, Gramina. Sce Botany Index.

LAHOLM, a fea port town of Sweden, in the province of Gothland, and territory of Halland, feated near the Baltic fea, with a cafte and a harbour, in E. Long. 13. 13. N. Lat. 56. 35 .

LAEOR, a large town of Afa, in ludoftan, and capital of a province of the fanse name, and one of the moft cunfiderable in the Mogul's dominions. It is of a vaft circumference, and contains a great number of mufques, public baths, caravanferas, and pagods. It was the refidence of the Great Mogul ; but fince the removal of the court, the fine palace is going to decay. There is a magnificent walk of thady trees, which runs from this to Agra, that is upwards of 300 miles. Here they have manufactures of cotton cloths and $\mathbb{A}$ uffs of all kinds, and they make very curious carpets. E. Long. 75. 55. N. Lat. 31. 40.

LAANEZ, James, a Spaniard, companion of Ignatius of Loyola, fecond general of the Jefuits, and a man of a more daring and political charader. Having procured from Pope Paul IV. the perpetual generalihip of the new order of Jefuits, after the death of Ignatius, he got the following privileges ratified by that pontiff, which thow that he was in fact the founder of the worft part of their innlitution: 1. The right of making all forts of contracts (without the privity of the community) vefled in the generals and their delegates. 2. That of giving authenticity to all comments and explanations of their conflitutions. 3. The power of making new, and altering the old: this opened the door to their bloody political tenets, not to be attributed to Loyola. 4. That of having prifons independent of the fecular authority, in which they put to death refractory brethren. Lainez died in 1565 , aged 53 .

Lairesse, Gerard, an eminent Flemih painter, born at Liege in 1640 . He received the principal part of his inftruction from his father Renieve de Laireffe, though he is alfo accounted a difciple of Bartolet. He firft fettled at Utrecht, where he lived in diftrefled circumftances; but an accidental recommendation carrying him to Amfterdam, he foon exchanged want and obfcurity for atfluence and reputation. He was a perfect mafter of hittory; his defigns are diflinguilhed by the grandeur of the compoftion; and the back grounds, wherever the fubjects required it, are rich in architeture, which is an uncommon circumftance in that conntry. He had the unhappinefs to lofe his fight feveral years befure his death, which happened in $1 \% 11$; fo that the treatife on Defigr and Colouring, which paffes under his name, was not wrote by him, but collecled from his obfervations after he was blind, and publifhed after his death. He had three ions, two of whom were painters; and alfo three brothers, Emell, James. and John : Erneft and John painted animals, and James was a dlower painter. He engraved a good deal in aquafortis: his works contift of 256 plates, above half of which were done with his own hand. He wrote an exccllent book on the art,
which has been tranflated into Englifl, and printed at Lonidan boih in 4 to and 8 vo .
LAIS, a celcbrated courtefan, daughter of Timandra the miftels of Alciliades, born at Hyceara in Sicily. She was carried away from her mative place, when Nicias the Athenian general invaded Sicily. She fi:l begai to fell her favours at Corinth for 10,000 drachmas, and the immente number of princes, noblemen, plilofuphers, orators, and plebeian:, which courted her embraces, th,w how much commendation is owed to her perfonal charwis. The expences which attended her pleafures, gave rife to the proverb of Non cuivis homini contingit adire Cormthum. Even Demathenes himfelf vinted Corintin for the fake of Lais; but when he was informed by the courtefan, that admittance to her bed was to be bought at the enormous fun of about 2001. Englihh money, the orator departed, and obferved that he would not buy repentance at fo dear a price. The charms which had attrated Demothenes to Corinth, had no influence upon Xenocrates. When Lais faw the philofopher unmoved by her beauty, the vifited his houle herfelf; but there the had no reafon to boalt of the licentioufnefs or eafy fubmifion of X̌enocrates. Diogenes the cynic was one of her warmelt admiress, and though filthy in his drefs and manners, yet he gained her heart and enjoyed her moft unbounded favours. The fculptor Mycon alfo folicited the favours of Lais, but he met with coldnefs: he, however, attributed the caufe of his ill reception to the whitenefs of his hair, and dyed it of a brown colour, but to no purpofe: "Fool that thau ant (liail the courtefan) to afk what I iefufed yefterday to thy father." Lais ridiculed the aufterity of philofophers, and laughed at the weaknefs of thofe who pretend to have gained a fuperiority over their paffions, by obfcrsing that the fages and philofophers of the age were not above the reft of mankind, tor the found them at ber door as often as the reft of the Athenians. The fuccefs which her debaucheries met at Corinth encouraged Lais to pafs into Theffialy, and nore particularly to enjoy the company of a farourite youth called Hippoffratus. She was however difappointed: the women of the place, jealous of her charms, and apprehenfive of her corrupting the fidelity of their hulbands, aflaffinated her in the temple of Venus, about 340 years before the Chrifian era. Some fuppofe that there were two perions of this name, a mother and her daughter.

LAITY, the people as diftinguilhed from the clergy ; (fee Clergy). The lay part of his majelty's fubjects is divided into three diftinct flates; the civil, the military, and the maritime. See Civil, Minitagy, Meritime.

LAKE, a collection of waters contained in fome mavity in an inland place, of a large extent, furroundod with land, and having no communication with the ocean. Lakes may be divided into four kinds. 1. Such as neither receive nor fend forth rivers. 2. Such as emit rivers, without receiving any, 3. Such as receive rivers, without emitting any. And, 4. Such as both receise and fend forth rivers. Of the firt kind, fome are temprorary and others peremnial. Moft of thofe that are temborary owe their origin to the rain, and the cavity or depreffion of the place in which they are lodged : thus in India there are feveral fuch lakes made

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by the induftry of the natives, of which fame are a mile, and fome two, in circuit; thefe are furrounded with a fone wall, and being filled in the rainy manths, fupply the inlabitants in dry feafons, whis live at it great dillance from frinus or rivers. There are aito several of this kind formed by the inundations of the Nile and the Niger; and in Murrovy, Finiand, and La!land, there are many lakes fonned, partiy by the sains, and partly by the melting of the ice and frow: but moft of the pertmsial lakes, which neither receive nor emit rivers, probably owe their rife to fprings at the bottom, by which they are conllartly fupplied. The lecond kind of lakes, which emit without receising rivers, is very numerois. Many rivers tlo:v from thefe as out of cifterns; where their furings heing fothated low within a hollow place, fist fil the cavity and make it a lake, which not beciog capucious en ush to hold all the water, it overflows and forms a river : of this kind is the Woiga, at the hearl of the River Wolga; the lake Odium, at the bead of the Tanais: the Adac, from whence one branch of the river Ti gris flows; the Ozero, or White lake, in Minfoovy, which is the fource of the river Shakfla; the great lane Chaamay, which emits four very large rivers, which water the countries of Siam, Pegu, \&ic. viz. the Menan, the Ara, the Caipoumuo, and the I quuia, \&c. The third fpecies of lakes, which reseive rivers hut emit none, apparently owe their origin to thole s:vers which, in their progrefs from their fource, falling into fome extenfive cavity, are collected together, and form a lake of fuch dimentions as say lofe as much by exhalation as it continually receives trom thefe fources: of this kind is that great ialie improperly called the Cafpion fea; the lake Afphaltites. alfo called the Dead fea; the latie of Geneva, and feveral others. Of the fourth fpecies, which both receive and emit rivers, we reckon three kinds, as the quantity they emit is greater, equal, or le $\left[s, t l_{1 a n}\right.$ they receive. If it be greater, it is plain that they mult be fupplied by fprings at the bottom; if lefs, the furplus of the water is probably fpent in exhalations; and if it be equal, their fprings jult fupply what is evaporated by the fun.

Lakes are alfo divided into thofe of frefl water and thofe of falt. Dr Halley is of opinion, that all great peremial lakes are faline, either in a greater or lefs degree; and that this falmefs increales with time: and on this foundation he propafes a method for determining the age of the world.

Large lakes anfuer the moft valuable purpuies in the northern regions, the warm vapours that arife foum them moderating the pinching cold of thofe climates; and what is fill a greater advantage, when they are placed in warmer clinata at a great ditance from the fea, the exhalations raifed from them by the fun caufe the countries that border upon them to be refrefined with frequent thowers, and confequently prevent their being barren deferts.

Lake, or Lacque, a preparation of different fublances into a kind of magiftery for the ufe of jaint rs. One of the fineft and firt invented of which w-s that of gum lacca or lacque; from which all the rell, as made by the fame procefs, are called by the cummon name lacques. See I.Acca

The method of preparing thefe, in general, may be 3 R hnown

## I．A K

known by the cxample of that of the curcuma root of the flops，called turmeric rout；the frocefs for the a：taking of which is this：Take a pround of turmeric， root in fine powder，thrce piats of water，and an ounce of falt of tartar ；put all into a glazed earthen vefiel， and let them boil together over a clear gentle fre，till the water appears highly impregnated with the root， and will ftain a paper to a beauiful yellow．Filtre this liquor，and gradually add to it a ilrong folution of rock alum in＂ater，till the yellow matter is all curdled together and precipitated；after this pour the whole into a filtre of paper，and the water will run of and leave the yellow matter behind．It is to be wafled many times with freh water，till the water comes off infipid，and then is obtained the beautiful yellow called lacque of turmeric，and ufed in paint－ ing．

In this manner may a lake be made of any of the tinging fubflances that are of a fomewhat flrong tex－ ture，as madder，logwood，\＆ic．but it will not fucceed in the more tender fpecies，as the flowers of rofes，vio－ lets，\＆ec．as it deffroys the nice arrangement of parts in thole fubjecis on which the colour depends．

A yellow lake for painting is to be made from broum flowers in the following manner：Make a ley of pot ahes and lime realonably frong；in this boil，at a gentle firc，freh broom flowers till they are white，the ley having extracied all their colour：then take out the flowers，and put the ley to boil in earthen veffels over the fire ；add as much alum as the liquor will dil－ Solve；then empty this ley into a veficl of clean water， and it will give a yellow colour at the bottom．Let all feetle，and decant off the clear liquor．Wanh this powder，which is found at the bottom，with more wa－ ter，till all the falts of the ley are wathed off；then fe－ parate the yellow matter，and dry it in the flade．It proves a very valuable yellow．

Lake is at prefent fcldom prepared from any other fubftance than fcarlet rags，cochineal，and Brafil wood． The beft of what is commonly fold is made from the the cuttle－hone；and this may be prepared in the fol－ lowing manner：Diffolve a pound of the beft pearl afhes in two quarts of water，and filtre the liquor through paper；add to this folution two more quarts of water and a pound of clean fcarlet freds，and boil them in a perster boiler till the firreds bave lof their fcarlet co－ lour；take out the fhreds and prefs them，and put the colnured＂ater yielded by them to the other ：in the fame folution boil another pound of the fhreds，pro－ ceeding in the fame manner ；and likewife a third and fourth pound．Whillt this is doing，diffolve a pound and a lalf of cuttle－fifh hone in a pound of ftrong aquafortis in a glafs receiver ；adding more of the bone if it appear to produce any e ebullition in the aquafortis； and pour this ilrained folution gradually into the other； but if any ebullition be occafioned，more of the cuttle－ fing bone mult be diffolved as before，and added till no ebullition appears in the mixture．The crimfon fedi－ ment depofited by the liquor thus prepared is the lake： pour off the water；and tilir the lake in two gallons of hard fpring water，and mix the fediment in two gallons of frefh water；let this method be repeated four or five times．If no hard water can be procured， or the lake appears too purple，balf an ousce of alum
flou＇d be added to each quantity of water before it be ufet．Huring thus fulticiently freed the lake from the falte，drain off the water through a filtre，covered with a wom linen cloth．When it has been drained to a proper drynefs，let it be dropped through a pro－ per funnel on clean boards，and the drops will occome fmall cones or pyramids，in which form the lake muft be fuffered to dry，and the preparation is com． pleted．

Lakc may be prepared from cochineal，by gently boiling two ounces of cochineal in a quart of water； filtering the folution through paper，and adding two ounces of pearl－athes diffolved in half a pint of warm water，and filtered through paper．Make a folution of cuttle－bone as in the former procefs；and to a pint of it add two ounces of alum difiolved in half a pinc of water．Put this misture gradually to that of the cochineal and pearl－anies，as long as any ebullition appears to arifc，and procced as above．A heautiful lake may be prepared from Brafil wood，by boiling three pounds of it for an bour in a folution of three pounds of common falt in three gallons of water，and filtering the hot huid through paper；add to this a folution of five pounds of alum in three galions of water．Diffolve three pounds of the beft pearl－aflies in a gallon and a half of water，and purify it by filter－ ing；put this gradually to the other，till the whole of the colour appear to be precipitated，and the fluid be left clear and colourlefs．But if any appearance of purple be feen，add a freíh quantity of the folution of alum by degrées，till a fcarlet hue be produced．Then purfuc the directions given in the firlt procels with re－ gard to the fediment．If half a pound of feed lac be added to the folution of pearl－afhes，and diffolved in it before its purification by the filtre，and two pounds of the wood，and a proportional quantity of the common falt and water be ufed in the coloured folution，a lake will be produced that will ftand well in oil or water， but is not fo tranfparent in oil as without the feed lac． The lake with Brafil wood may be alfo made by add． ing half an ounce of anotto to each pound of the wood； but the anotto muft be diffolved in the folution of pearl－afhes．There is a kind of beautiful lake brought from China；but as it does not mix well with either water or oil，though it diffolves entirely in fpirit of wine，it is not of any ufe in our kinds of painting． This has been erroneoully called faflower．

Orange $L_{A K E}$ ，is the tinging part of anotto precipi－ tated together with the earth of alum．This pigment， which is of a bright orange colour，and fit for varnifh painting，where there is no fear of flying，and alfo for putting under cryftal to imitate the vinegar garnet， may be prepared by boiling four ounces of the beft anotto and one pound of pearl athes half an hour in a gallon of water；and ftraining the folution through paper．Mix gradually with this a folution of a pound and a half of alum in another gallon of water ；delift－ ing when no ebullition attends the commixture．Treat the fediment in the manner already dirceted for other kinds of lake，and dry it in Square bits or round lo－ zenges．

LAMA，a fynonyme of the camelus pacos．See Camelus，Mamnalia Inde．x．

IAMA，the fovereign pontiff，or rather got，of the Auatic lartars，inhabiting the country of Barantola．

## L A M

 country, but alio by the kings of Tratary, who fend him rich prefents, and go in pilgrimage to pay him adoration, calling lim lama comsiu, i. e. "god, the everlafting father of heaven." He is never to be feen but in a fecret place of his palace, amidit a great number of lamps, fitting crofs-legged upon a culhion, and adorned all over with gold and precious floncs; where at a diftance they prollrate themfelves befure him, it not being lawful for any to kifs even his feet. He is called the oreat lama, or lama of lamas; that is, "prielt of priefts." The orthodox opinion is, that when the grand lama feems to die either of old age or intirmity, his foul in fact only quits a crazy habitation to look for another younger or better; and it is difcovered again in the body of fome child, by certain tokens known only to the lamas or priefts, in which order he always appears.The following account of the ceremonies attending the inauguration of the infant lama in Thibet is extracted from the firft volume of the Aliatic Refearches.

The emperor of China appears on this occafion to have affumed a very confpicuous part in giving teftimony of his refpect and zeal for the great religious fa. ther of his faith. Farly in the year 1784 , he difmiffed ambaffadors from the court of Pekin to Teethoo Loomboo, to reprefent their fovereign in fupporting the dignity of the high prieft, and do honour to the occafion of the anumption of his office. Dalai Lama and the viceroy of Laffa, accompanied by all the court, ene of the Chinefe generals Alationed at Laffa with a past of the troops under his command, two of the four magill rates of the city, the heads of every monaftery throughout Thibet, and the emperor's ambaffadors, appeared at Teefhoo Loomboo, to celebrate this epocha in their theological inftitutions. The 28 th day of the feventh moon, correfponding nearly, as their year commences with the vernal equinox, to the middle of October 1784, was chofen as the mofl aufpicious for the ceremony of inauguration: a few days previous to which the lama was conducted from Terpaling, the monaftery in which be had paffed his infancy, with every mark of nomp and homage that could be paid by an enthufiaftic people. So great a concourfe as affembled either from curiofity or devotion was never feen before, for not a perfon of any condition in Thibet was abfent who couid join the fuite. The proceffion was hence neceffaily conftrained to move fo flow, that though Terpaling is fituated at the diftance of 25 miles only from Teefhoo Loomboo, three days expired in the performance of this thort march. The firl halt was made at Tfondue; the fecond at Summaar, about lix miles off, whence the moft fplendid parade was referved for the lama's entry on the third day, the account of which is given by a perfon who was prefent in the proceffion. The roal, he fays, was previoufly prepared hy being whitened with a wahh, and having piles of flones heaped up with fmall intervals between on eit!, er fide. The retirue paffed between a double row of : riefls, who formed a freet extending all the way from Summaar to the gates of the palace. Some of the prietls beld lighted rods of a perfumed compofition that hurn like decayed wood, and emit an aromatic fauke; the refi werc fur:inited with the different mu-
fical initruments they ufe at their devotions, fuch as the gong, the cymbal, hautboy, trumpets, drums, and fea dhelly, which were all formded in union with the hymu they chanted. 'The crowd of fpectators was kept without the ftreet, and none adraited on the high road but fuch as properly belonged to or had a prefcribed place in the procellion, which was arranged in the following order.

The van was led by three military commandants or govemors of diftricts at the head of 6000 or 7000 horfemen armed with quivers, bous, and matchlocks. In their rear followed the ambaffador' with his fuite, carrying his diploma, as is the cultom of China, made ury in the form of a large tube, and faftened on his back. Next the Chinefe general advanced with the troops under his command, mounted, and accoutred after their way with fire arms and fabres; then came a very numerous group bearing the various ftandards and infignia of ltate; next to them mored a full band of wind and other fonorous intruments; after which were led two horfes richly caparifoned, each carrying two large circular ftores difpofed like panniers acrofs the horfe's back and filled with burning aromatic woods. Thefe were followed by a fenior prieft, called a lama, who bore a box containing books of their form of prayer and fome favourite idols. Next nine fumpter horles were led loaded with the lama's apparel ; after which came the priefts immediately attached to the lama's perfon for the performance of daily offices in the temple, amounting to about 700 ; following them were two men each carrying on his fhoulder a large cylindrical gold infignium embofled with emblenatical figures (a gift from the emperor of China). The Duhunniers and Soopoons, who were employed in communicating addreffes and diltributing alms, immediately preceded the lama's bier, which was covered with a gaudy canopy, and bome by eight of the 16 Chinefe appointed for this fervice. On one fide of the bier attended the regent, on the other the lama's father. It was followed by the heads of the different monaiteries, and as the proceffion advanced, the prietts who formed the freet fell into the rear and brought up the fuite, which moved at an extremely flow pace, and about noon was received within the confines of the monaftery, amidit an amazing difplay of colours, the acclamations of the crowd, folemn mufic, and the chanting of their priells.

The lama being fafely lodged in the palace, the regent and Soopoon Choomboo went out, as is a cultomary compliment paid to rifitors of high rank on their near approach, to meet and conduct Dalai Lama and the viceroy of Laffa who were on the way to Teelhoo Loomboo. Their retinues encountered the following morning at the foot of Painnm calle, and the next day together entered the monaltery of Teelhoo Loomboo, in which both Dalai Lama and the viccroy were accommodated during their flay.

The following morning, which was the third after Tcelloo Lama's arrival, he was carried to the great temple, and about noon leated upon the throne of his progenitors; at which time the eraperor's ambaffador delivered his diploma, and placed the prefents with which he had been charged at the lama's fect.

Tle three next enluing days, Jalai Lama met Tee. fhoo Lana in the temple, where ithey were afited ty 3K2

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Lama, all the prients in the insocation and public worthip of L.mmanon. their gods. The rites then performed completed, as
we underfand, the bufinefs of inauguration. During this interval all who were at the capital were entertained at the public expence, and alms were dillributed without relerve. In conformity likewile to previous notice circulated everywhere for the lame face of time, univertal rejoicings prevailed throughout "Thibet. Banners were unfurled on all their fortrelies, the peafantry filled up the day with mufic and feltivity, and the night was celebratat by general illuminations. A long period was afterwards employed in making predents and public entertaimments to the newly inducted lama, who at the time of bis acceffion to the mufnud, or, if we may ufe the term, pontificate of Teethoo Loomboo, was not three years of age. The ceremony was beçun by Dalai Lama, whofe offerings are faid to have amounted to a greater value, and his pablic entertainments to have been more folendid than the reft. The fecond day was dedicated to the viceroy of Laffa. The third to the Clinele general. Then followed the culloong or magillates of Laifa, and the rell of the principal perfons who had accompanied Dalai Lama. After which the regent of Teefhoo Loomboo, and all that were dependent on that government, were feverally admitted, according to pre-eminence of rank, to pay their tributes of obeifance and relpect. As foon as the acknowledgements of all thofe were received who were adminible to the privilege, 'Teelhoo Lama made in the fame order fuitable returns to each, and the confummation lafted 40 days.

Many importunities were ufed with Dalai Lama to prolong his ftay at Teefhoo loomboo; but he excufed himfelf from encumbering the capital any longer with fo numerous a concourfe of people as attended on his movements, and deeming it expedient to make his abfence as fhort as poffible from the feat of his authority, at the expiration of 40 days he witladrew with all his fuite to Lafla, and the emperor's ambaflador received his difmifion to return to China, and thus terminated this famous feftival.

LAMANON, Robert Paul, a celebrated naturalift, was born at Salon in Prorence, in the year 1752 , of a refpectable family. He was detlined for the church, and lent to Paris to fudy divinity ; but the acquaintance of philofophers foon made hime relinquith bis theological purfuits, and he turned his attention to chemifiry and mineralogy. Yet he afterwards became a canon in the church; but the death of his father and elder brother caufed him to refign an office to which he was never attached, and he now poffeffed the power of directing his own future exertions. One a miable trait in the character of Lamanon is highly worthy of notice, and that is, that he refufed to accept of his paternal inhcritance, but as an equal tharer with his brothers and fifters. When offered a confiderable fum to relign his othe of canon in favour of a certam individual, he replied, " the chapter of Arles did not fell me my benefice; I finall therefore reftore it in the lame manner that Irceived it," which was a conduct undoubtedly meitorious. Anxious to remove the veil which conceals :ice foctets of nature from mortal eyes, he travelled lircueh Provence and Dauphiné, and fcaled the Alps and Pyronees. He reached the fummit of rocks, and explored the abyls of caverns, weighed the air, analyf-
ed fpecimens, and in thort confidered himfelf qualified to form a new fyltem of this world.

After fome time he returned to Paris, and from thence went over to England ; and although he was in imminent danger of being overwhelmed by the ungovernable fury of the waves, he ordered himfelf to be tied to the main-matt, that he might be enabled to contemplate more at leifure this grand and terrific fpectacle. Inttead of being difinayed, he was tranfported with the tremendous roar of thunder, the vivid flathes of lightning, the glancing fpray with which be was almolt inceffantly covered; and in his own ellimation this was the moft exquifte day which he ever enjoyed.

During the time which Lamanon afterwards feent at Paris, he became one of the founders of the mufeum. Again refolving to revift Switzerland and Italy, he went firft to Curin, where he joined himfelf to the learned of that country. From Piedmont he went to Italy, returning by the way of Switzerland, where he explored the Alps, and afcended to the top of Mont Blanc; and on his return to Provence with the fpoils of the countries which he had vifited, he properly arranged the interefting fruits of his journey. While Lamanon was preparing for the prels his interelling work on the Theory of the Earth, the French government conceived the defign of completing the difcoveries of Captain Cook, and the academy of fciences was charged with the felection of men qualifed to rectify our notions of the fouthern hemifphere. Condorcet therefore made choice of Lamanon for advancing the progrefs of natural hiltory connected with this great enterprife, and he received the invitation of that philofopher with the moft eager trawforts. He fet out for Paris, refuled the falary offered him, took leave of his friends, and went direftly for Brett. The armament under tle command of the juitly celebrated but unfortunate La Peroufe, fet fail on the 1 it of Augult 1785; and having reached the infand of Maouna, Lamanon went afhore with the crew of two boats, where he fell a facrifice to the fary of the favages, bravely fighting in felf defence.

In the eftimation of his eulogif M. Ponee, Lamanon feemed deftined to effect fome great revolution in fcience. His ideas werc profound, his character energetic, his mind fagacions, and he poffefed that lively curiofity which can draw inftruction out of any thing, and which might have led him in time to the molt ine terefting difcoveries. His perfon was tall, his countenance highly expreffive, his frength and activity almoft incredible. His ftyle as a writer is nervous, and be was eminently endowed with the precifion of logical reafoning, which cannot fail to command attention and enforce perfuafion.

LAMB, in Zoology, the young of the theep kind. See Ovis, Mammalita Index.

Scythian LAMB, a kind of mofs, which grows about the roots of fern in fome of the northern parts of Europe and Afia, and fometimes afiumes the form of a quadruped ; fo called from a fuppofed refemblance in flape to that animal. It has fomething like four feet, and its body is covered with a kind of down. Travcllers report that it will fuffer no vegetable to grow within a certain diftance of its feat. Sir Hans Sloane read a memoir upon this plant before the Society; for which thofe who think it worth while may confult their Tranfactions,

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rbecins, a ations, No $2+5$, p. 46 r . Mr Beli, in his "Account mbert. of a Journey frum St Pcteriburgh to Ifpahan," informs us that he fearched in vain for this plant in the neighbourhood of Allracan, when at the fame time the more fenfible and cxperienced amolight the lariars treated the "hole hiftory as fabulous.
lambecius, Peter, born at Hamburgh in 1628, was one of the molt learned men of his timc. He rent very young to ftudy in foreing courstrics, at the expence of his uncle the learned Hollfenius. Hc was chofen profellor of hitory at I Famburgh in 1652, and rector of the college of that eity in :663. He had taken his degree of do:tor of law in France before. He futiered a thouland vexations in his own country; becaufe his eremies charged him with atheifm, and cenflured his writings bitterly. He married a rich lady, but who was fo very cowctous that he left her in dif. gut witiin a fortinght. He went to Viema, and from thence to Rome, where he publicly profeffed the Catholic religio:t. He returaed to Vienna in 1662 , where hee was kindly received by the emperor, who appointed him his fublibrarian, and afterwaru's his principal librarian, with the title of counfellor and hifforiographer; in which employment be continued till his death, and gained a great reputation by the works he publifhed, tiz. 1. An Effay on Aulus Gellius. 2. The Antiquities of Hanaburgh. 3. Remarks on Codinus's Antiquities of Conftantinople, \&c.

LAMBERT of Afchaffenburgh, a Benediatine monk, in the ifih century, wrote feveral works; among which is a hiftory of Germany, from the year 1050 to 1077.

Livibert, yohn, general of the parliament's forces in the civil wars of the lait century, was of a good family, and for fome tine thudied the law in one of the inns of cuurt; but upon the breaking out of the rebclLion, went into the parliament army, where he foun rofe to the rank of colonel, and by his conduat and ralour performed many eminent fervices. Yut when Cromwell feemed inclined to affume the title of king, Lambert oppofed it with great vigour, and even refuted to take the oath required by the affembly and courcil to be faithful to the government; on which Cromwell deprived him of his commifirion, but granted him a penfion of 2000l. a-year. This was an act uf prudence rather than of generofity; as he well knew, that fuch genius as Lambert's, rendered defperate by poverty, was capable of attempting any thing.

Lambert being now divefted of all employment, retired to Wimbleton houfe; where turning thorift, lie had the fineft tulips and gillifluwers that could be got for love or money. . Yet amidit thefe amufements he Alill nourifhed his ambition ; for when Riclard Cromwell fucceeded his father, he acted fo effectually with Fleetwood, Detborough, Vane, Berry, and others, that the new protector was obliged tu furrender his authority'; and the members of the long parliament, who had continued fitting till the 20 th of April 1653 , when Oliect difmiffed them, were reflorel to their feats, and Lambert was immediately appointed one of the council of fate, and colonel of a regiment of horfe and another of foot. Ior this fervice the parliament prefented him 1000 . to buy a jewel; but he diftributed it among his officers. This being foon known to the parliament, they concladed that he intended to fecure a party in the
army. They therefore courteounly invited hima to cume Lambert tu Londlon ; but refolved, as foon as he thould ariive, to fecure him from doing any further hama. Lambert,

Lamech. apprehenfive of this, delayed his return, and even refufed to refign his commifliun when it was demanded of hime and of eight of the other leading ollicers; and, marching up to Loudon with his army, dillodged the parliament by force in Oanber 1659 . He was then appointed, by a council of the oflicers, major general of the army, and one of the new council for the management of public affairs, and fent to command the furces in the north. But General Monk marching from Scotland into England to fupport the parliament, againft which Lambert had acted with fucl violence, the latter, being deferted by his army, was obliged to fubmit to the parliament, and by their order was committed prifoner to the tower ; whence efcaping, lie foon appeared in arms with four troops under his command, but was defeated and taken prifoner by Colonel Ingoldiby.

At the Reforation he was patticularly excepted out of the act of indernnity. Being brought to his trial on the $4^{\text {th }}$ of June 1662 , for levying war againt the king, this daring general behaved with nome fubmillion than the meanelt of his fellow prifoners, and was by his majelty's favour reprieved at the bar, and fentenced to be confined during life in the illand of Guernfes.

Lampert, Anma Therefa de Marguenat de Courcelles, marchionefs of an clegant moral writer, was the only daughter of Stephen Marguenat lord of Courcelles. In 1666 fhe married Henry de Lambert, who at his death was lieutenant-general of the army; and fhe afierwards remained a ridow with a fon and a daughter, whom ftie educated with great care. Her houfe was a kind of academy, to which perfons of diftinguithed abilities regularly reforted. She died at Paris in 1733, aged 86. Her works, which are written with much talle, judgement, and delicacy, are printed in 2 vols. The advice of a mother to her fon and daughter are particularly cfleemed.

LAMBIN, Dexvis, an eminent claffical commentator, was born at Mont:euil-fur-Mer, in Picardy, and acquired great ikill in polite literature. He lived for a long time at Rome; and at his return to Paris was made royal profeffor of the Greek language. He died in $157^{2}$, aged 56 , of pure grief at the death of his friend Ramus, who was murderes at the manacre on St Bartholomew's day. He wrote commentaries on Plautus, Lucretius, Cicero, and Horace, and other works. His commentary on Horace is more particularly efteemed.

LAMECH, of the race of Cain, was the fon of Methufael, and father of Jabal, Jubal, 'Tubal-caiu, and Naamab, Gen. iv. 18, 19, z0, \&c. Lamech is celebrated in Saripture for his polygamy, whereof he is thought to be the firft author in the world. He married Adah and Zillah. Adah was the mother of Jabal and Jubal; and Zillah of Tubal-cain, and Natn.ly his fifter. One day Lamech faid to his wives, "Hear me, ye wives of Lamech; I have flain a man to my wounding, and a young man to ny burt. If Cain fuall be avenged feven fold, truly Lamech feventy and feven fuid." Thefe words ate an unintelligible riddle. The reader may confult the commentators. There is a tradit:oa amorg the Hebews, that Lamech growing blind,

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Lamech bina, ignorantly killed Cain, believing him to be fome II Lamıacum Bellum. wild beall ; and that afterwards he flew his own fon Tubal-cain, who had been the caufe of this murder, be-
caufe he had directed him to fthoot at a certain place in the thickets where he had feen fomething ftir. See Cain.

Several other fuppofitions are produced in order to cxplain this paffage concerning Lamech, and all almolt equally uncertain and abfurd.

Lamech, the fon of Mcthufelah, and father of Noah. He lived a hundred fourfcore and two years before the birth of Noah, (Gen. v. 25, 3土.); and after that, he lived five hundred and ninety-five years longer: thus the whole time of his life was leven hundred feventy-feven years, being born in the year of the world 874 , and dying in the year of the world 1651

LAMELI. $\mathbb{E}$, in Natural Hiffory, denotes very thin plates, fuch as the fales of fifhes are compoled of.

LAMENTATIONS, a canonical book of the Old 'Ieftament, written by the prophet Jeremiah, according to Archbifhop Uiher and fome other learned men, who follow the opinion of Jolephus and St Jerome, on occafion of Jofiah's death. But this opinion does not feem to agree with the fubject of the book, the lamentation compofed by Jeremiah on that occafion being probably loft. The fifty-fecond chapter of the book of Jeremiah was probably added by Ezra, as a preface or introduction to the Lamentations: the two firft chapters are employed in defcribing the calamities of the fiege of Jerufalem : in the third the author deplores the perfecutions he himfelf bad fuffered: the fourth treats of the defolation of the city and tem. ple, and the misfortunes of Zedekiah : the fifth chapter is a prayer for the Jews in their diferfion and captivity : and at the clofe of all he fpeaks of the cruelty of the Edomites, who had infulted Jerufalem in her mifery. All the chapters of this book, except the laft, are in metre, and digefted in the order of the alphaset; with this difference, that in the firll, fecond, and fourth chapters, the firlt letter of every verle follows the order of the alphabet; but in the third the fame initial letter is continued for three verfes together. This order was probably adopted, that the book might be more eafily learnt and retained. The fubject of this book is of the moft moving kind; and the ilyle throughout lively, pathetic, and affecting. In this kind of writing the prophet Jeremiah was a great mafter, according to the character which Grotius gives of him, Mirus in affectibus concitandis.

LAMIA, in Ancient Geograply, a town of the Phehiotis, a diltrict of Theffaly. Famous for giving name to the Belium Lamiacum, waged by the Greeks, on the Macedonians after Alexander's death.

1. A MIACUM Eelium happened after the death of Alexander, when the Greeks, and particularly the Athenians, incited by their orators, relolved to free Greece from the garrifons of the Macedonians. Leof. thenes was appointed commander of a numerous force, and marched again! Antipater, who then prefided over Macedenia. Antipater entered Theffaly at the head of 13,000 foot and 600 horfe, and was beaten by the fuper:or force of the Athenians and of their Greck confederates. Antipater alter this folow fled to Lamia, where he refcised, wi:h all the courase and fagacity
of a careful general, to maintain a fiege with about 8000 or 9000 mea that had efcaped from the field of battle. Leofthenes, unabie to take the city by form, began to make a regular fiege. His operations were delayed by the frequent fallies of Antipater : and Leollhenes being lilled by the blow of a llone which he received, Antipater made his efcape out of Lamia, and foon atter, with the affiftance of the amny of Craterus brought from Afia, he gave the Athenians battle near Cranon; and though only 500 of their men were flain, yet they became fo difpirited, that they fued for peace from the conqueror. Antipater at laft with difficulty confented, provided they raifed taxes in the ufual man. ner, received a Macedonian garrifon, defrayed the expences of the war, and, laftly, delivered into his hands Demofthenes and Hyperides, the two orators whofe prevailing eloquence had excited their countryn,en againft him. Thefe difadvantageous terms were accepted by the Athenians, yet Demofthenes had time to efcape and poifon himfelf. Hyperides was carried before Antipater, by whofe orders, his tongue being previoufly cut out, he was put to death.

LAM1AE, a fort of demons who had their exiftence in the imaginations of the heathens, and were fuppofed to devour children. Their form was human, refembling beautiful women. Horace makes mention of them in his Art of Poetry. 'The name, according to forme, is derived from lanio, "to tear ;" or according to others, is a corruption of a Hebrew word fignifying to devour. They are allo called Larva or Lemures.

LAMINA, in Plyy $20 \log y$, thin plates, or tables, whereof any thing conlills; particularly the human fkull, which are two, the one laid over the other.

LAMINIUM, in Ancient Geagraphy, a town of the Carpatani in the Hither Spain; at the diftance of feven miles from the head of the Anas or Guadiana: Now Montiel, a citadel of New Cattile; and the territory c.lled Ager Laminitanus, is now el Campo de Montiel, (Clufius).
LAMIUM, Dfad-Nettie, a genus of plants belonging to the didynamia clafs; and in the natural method ranking under the 42 d order, Vericillata. See Botany Index.

LAMMAS-DAy, the firf of Auguft ; fo called, as fome will have it, becaufe lambs then grow out of leafons, as being too big. Others derive it from a Saxon word, fignifying "loaf-mafs," becaufe on that day our forefathers made an offering of bread made with new whear.

On this day the tenants who formerly held lands of the cathedral church in York, were bound by their tenuve to bring a lamb alive into the church at high mafs.

LAMOIGNON, Chretien Francis de, marquis of Baville, and prefident of the parliament of Paris, was born in 1644. His father would not truft the education of his fon to another, but took it upon himfelf, and entered into the minuteft particulars of his firft ftudies: the love of letters and a folid tafe were the fruits the fcholar reaped from this valuable cducation. He learned rhetoric in the Jefuits college, made the tour of England and Holland, and returned home the admiration of thofe meetings regularly held by perfons of the fire mesit at his father's huufe. The ic-

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Limp. veral branches of literature were however only his amulement : the law was his real employ; and the cloquence of the bar at Paris owes its reformation from bomball and affected crudition to the plain and noble pleadings of M. Lamoignon. He was appointed the kinu"s adrocate general in 1672 ; which he difcharged until 1699 , when the prefidenthip of the parliament was contcrred on him. T"his poft he held nine years, when he was allowed to refign in favour of his eldeft fon: lie was chofen prefident of the Royal Academy of infcriptions in 1705 . The only work he fuffered to fee the light was his Pleader, which is a monument of his eloquence and inclination to polite letters. Hc died in 1709.

LAMP, a veflel containing oil, with a lighted wick.
Lamps were in general ufe amongt the Jews, Greeks, and Romans. The candleitick with feven branches, placed in the fanctuary by Mofes, and thofe which Solomon afterwards prepared for the temple, were cryital lamps filled with oil, and fixed upon the branches. The lamps or candleflicks made ufe of by the lews in their own houles were generally put into a very high ftand on the ground. The lamps fuppofed to be ufed by the foolifh virgins, \&c. in the gofpel, weie of a different kind.-According to critics and anriquaries, they were a fort of torches, made of iron or potters earth, wrapped about with old linen, and moiltened from time to time with oil. Math. Xxv. 1,2. The lamps of Gideon's foldiers were of the fame kind. The ufe of wax was not unknown to the Romans, but they generally burnt lamps; hence the proverb Tempus et oleum perdidt, "I have lof my labour." Lamps were fometimes burnt in honour of the dead, both by Greeks and Romans.

Dr St Clair, in the Philof. Tranf. $\mathrm{N}^{\circ} 245$, gives the defcription of an improvement on the common lamp. Ite propofes that it thould be made two or thee inches deep, with a pipe coming from the bottom almoft as high as the top of the veflel. Let it be filled fo high with water that it may cover the whole of the pipe at the bottom, that the oil may not get in at the pipe and fo be loft. Then let the oil be poured in fo as to fill the veffel almof brim full; and to the veffel muft be adapted a cover having as many holes as there are to be wicks. When the veficl is filled and the wicks lighted, if water falls in by drops at the pipe, it will always keep the oil at the fame height or very near it; the weight of the water being to that of the oil as $20 \frac{8}{15}$ to 19, which in two or three inches makes no great difference. If the water runs fafter than the oil wafles, it will only run over at the top of the pipe, and what does not run over will come under the oil, and keep it at the fame height.

From experiments made in order to afcertain the expence of burning chamber oil in lamps, it appears, that a taper lamp, with eight threads of cotton in the wick, confumes in one hour $\mathrm{T}^{\frac{3}{2} 25} \mathrm{O} \mathrm{Oz}$. of fpermaceti oil, at $25.6 d$. per galion; fo that the expence of burning 12 hours is 4.57 farthings. This lamp gives as good a light as the candles of fight and ten in the pound; it feldom wants fnuffing, and cafts a ftrong and fteady light. A taper, chamber, or watch lamp, with four ordine: threads of cotton in the wick, confumes 0.166402 . of fpermaccti oil in one hour; the oil at 25 .

6d. per gahoi, makes the crpence of barting in hout only 2.34 farthings.

Jerpetioal Z.amps. The teflimony of Pliny, St Autlin, and others, heve ied many io b-lieve that th:e ancients had the insention of neapetual lams; and fome moderns have attemp:ed to fud out the fecret, but hitherto in vain. Indeed it feems no eary matier to find out either a perpetual wick or perpetual oil. The curious may read Dr Plot's conjectures on the fubject in the Philof. Tranf. $\mathrm{N}^{\circ} 166$; or in Lowthorp's Abridgment, vol. iii. p. 636. But few, we believe, will give themfelves the trouble of fearching for the fecret, when they confider that the credulity of Pliny and of St Auftin was fuch, that their teftimony does not feem a fufficient inducement to us to believe a lamp was cver formed to burn 1500 or 1000 years: much lefs is it credible that the ancients had the fecret of making one burn for ever.

Rolling Lamps: A machine AB, with two moveable plate circles DE, FG, within it; whofe common centre of cclaxxis? motion and gravity is at $K$, where their axes of motion crofs one another. If the lamp KC , made pretty heavy and moveable about its axis HI, and whofe centre of gravity is at C , be fitied within the inner circle, the common centre of gravity of the whole machine will fall between K and C ; and by reafon of the pivots $\Lambda, I 3, D, E, H, I$, will be alwass at liberty to defeend: bence, though the whole machine be rolled alons. the ground, or moved in any mamer, the Alame will always be uppermoft, and the oil cannot (pill.

It is in this manner they hang the compals at fea; and thus fhould all the moon lanterns be made, that are carried before coaches. chaifes, and the like.

Argana's LAMP. This is a very ingenious contrivance, and the greateft improvement in lanips that has yet been made. It is the invention of a citizen of Geneva; and the principle on which the fuperiority of the lamp depends, is the admilfion of a larger quantity of air to the flame than can be done in the common way. This is accomplithed by making the wick of a circular form; by which means a current of air ruthes through the cylinder on which it is placed with great force; and, along with that which has accefs to the outfide, evcites the flame to fuch a degree that the fmoke is entirely confumed. Thus both the light and heat are prodigioufly incrafed, at the fame time that there is very confiderable faving in the expence of oil, the combultion being exceedingly augmented by the quantity of air admitted to the flame; and that what in common lamps is diflipated in fmoke is here converted into a brilliant flame.

This lamp is now very much in ufe; and is applied not only to the ordinary purpofes of illumination, but allo to that of a lamp furnace for chemical operations, in which it is found to exceed every other contrivance yct invented. It confifls of two parts, viz. a refervoir for the oil, and the lamy itfelf. The refervoir is ufually in the form of a vale, and has the lamp proceeding from its fide. The latecr confifts of an upright metallic tube about one inch and fix-tenths in diameter, three inches in length, and open at both ends. Within this is another tube about an inch in diameter, and nearly of an cqual length; the fpace betwist the two being left clear for the paflage of the air. The inter-

Banm. mal :ube in clofed at the botom, and contairs atuther timilar sube about half an inch in dianeter, which is foidered in the betion of the fecond. It is ferforated threnghout, to as to admit a current of air to pafs throsyh it; and the oil is contanised in the face betwint the tube and that which forrounds it. A particu?ar kind of cotton eloth is uled for the wick, the longitudinal threads of which are much thicker than the other:, and which near!y filts the face into which the oil tlows; and the mechanifm of the lamp is fuch, that the wich may be raifed or deprefied at pleafure. When the lamp is lighted, the trame is in the form of a hoilow cylinder ; and by reafon of the frong intux of air through the heated metalic tube, becomes extremely bright, the frooke being entisely corfumed for the reafons already mentioned. The heat and light are ltill father increafed, by putting orer the whole a glals cylinder nearly of the lize of the exterior tuhe. By diminilhing the certral aperture, the heat and light are proportionably diminithed, and the lamp begins to fmoke. The accefs of air both to the external and internal finfaces of the flame is indeed fo very neceffary, that a fenfible difference is perceived when the hand is hald eren at the diflance of an inch below the lower aperture of the cylinder; and there is alfo a ccrtain length of wick at which the effect of the lamp is frengelf. It the wick be very thort, the flame, though white and brilliant, emits a difagrecable and pale kind of light; and if very long, the upper part becomes brown, and fmoke is emitted.

The faving of expence in the ufe of this inftrument for common purpofes is very conliderable. By fome experiments it appears that the lamp will continue to hurn three hours for the value of one penny : and the following was the refult of the comparifon between the light emitted by it and that of a candle. The latter having been fuffered to burn fo long withcut fnuffing, that large lumps of coally natter were formed upon the wick, gave a light at 24 inches dilance equal to the lamp at 129 inches: whence it appeared that the light of the lamp was equal to 28 candles in this ftate. On fnuffing the candle, however, its light was fo much augmented, that it became neceffary to remove it to the diltance of 67 inches before its light became equal to that of the lamp at 129 fiches; whence it was concluded that the light of the lamp was fomewhat lefs than that of four candles freh fnuffed. At another trial, in which the lamp was placed at the diftance of $131 \frac{7}{2}$ inches, and a candle at the diffance of 55 inchea, the lishts were equal. In thefe experiments the candles made ule of were $10 \frac{3}{2}$ inches long, and $2 \frac{6}{10}$ inches in diameter. When the candle was newly fnuffed, it appeared to have the advantage; but the lamp foo: zot the luperiority; and on the whole it was con. cluded, that the lamp is at leall equivalent to half a dozen of tallow candles of fix in the pound ; the experce of the one being only twopence halfpemy, and the otizer eightpence, in fever hours.

The veft method of comparing the two lights together leems to be the following: Pisce the greater ligh at a conlideralle diflance from a white paper, the fr itr se buing brought nearer or removed farther otl occ tion require. If an angular body he held be re the paper, it will project two hadore: there two thadows can coincide only in part; and their an-
guhar cxtromities will, in all pefitions lutt one, be et lome dilance from each other; anl being made to coincide in a certain part of their bulk, they whil le bordered Ly a lighter thadow, occafioned by the exclution of the light from each of the tro luminous b3. dics refrective!y. Thefe lighter fhasoiss, in fact, a:e fyaces of the white paper illuminated by the diferent luminoua bodies, and may eafly be cumparea ionethe:, becaule at a certain point they acisally touch one another. If the frace illuminated by the fnaller jight appear brighteit, the light muit be removed farther off, but the contrary if it appear more obicure.

On cutting open one of Argend's wicks lengitudinally, and thes reducing the circular flame to a faight:lined one, the lights appeared quite equal in power ; but the circular one had by far the greatell eriect $i, 3$ dazzling the eyes; though when the long liame was made to mine on the paper, not by the broalide, bu: in the dircction of its length, it appeared more dazzling than the other. On placing this long fume at rigitt angles to the ray of Argand', lamp, it projected no Hadow: but when its length was placed in the direc. tion of the ray, it gave a fhadow bordered with is., broad, well defined, and bright lines.
'I'lue broad-wicked lamp feems to liave the adrantage of the other, as requiring lefs apparatus: and indeed by this contrivance we may at the moft tritling expence have a lamp capable of giving any degree of !ight we pleate. The only difadsantage attending either the one or the other is, that they cannot ealily be carried from one place to another; and in this refpect it does not feem poffible by any weans to bring lamps to an? equality with candles.

The molt economical method of lighting up large apartments by means of different lamps and candles, as it is of great importance, has occupied the attention of many ingenious men, particularly of Count Rumford and M. Haffenfratz. 'The follosing is the fimple and accurate method propofed by the count, for meafuring the relative quantities of light emitted by lamps differently contructed.

Let the two lamps, or other burning bodies to be compared, be denominated $A$ and $B$; and let them be placed at equal heights npon two light tables, or moveable ttands, in a darkened room; let a fheet of clean white paper be equally fpread out, and faftened upon the wainfcot, or fide of the room, at the fame height from the floor as the lights; and let the lights be placed oppofite to this fheet of paper, at the diftance of fix and eight feet from it, and the fane from each other, in fuch a manner, that a line drawn from the centre of the paper, perpendicular to its furface, thall bifect the angle formed by lines drawn from the lights to that centre; in which cafe, confidering the paper as a plane fipeculum, the one light will be precifely in the line of resiction of the other.

If the one light be wcaker than the other, and the weaker being placed at the difance of four feet from the centre of the paper, it thould be found neceffary, in order that the thadows may be of the fame denlity, to remove the flronger light to the diftance of eight feet from that centre; in that cafe, the real intenaity of the flronger light will be to that eft the weaker as $8=$ to $4^{2}$, or as $q$ to $t$.

When the thadows are of cqual cenfity at any given
pcint, the intenfity of the rays at that point are alfo equal. The greateft care mull be taken in every cafe that the lights compared be properly trimmed, elle the refults of the experiments will be inconclufive.

Count Rumford found, from a varicty of experiments condusted with his ufunl caution, that if oil is burnt in the lamp called Argand's lamp inftead of one of the common conilruction, the confumer has a clear faving of 15 per cent. an object of attention furely to thofe whofe finances are circumferibed. The principal difference between thefe two lamps is, that in the common lamp much of the oil is volatilized, without undergoing that procefs of combultion from which originates the difagreeable fmell produced by it; whereas in Argand's lamp the heat is fo intenfe at the top of the wick, that the oil is decompofed in its paftage through it, the wick being fo difpofed as to admit free accefs to the air, for the purpofe of aiding combuftion.

The count having made experiments with different inflammable fubitances, in order to afcertain which is the cheapeft or moft economical, obtained the following refults.

| Bees-wax.-A good wax candle, kept well fnuffed, and burning with a clear bright flame, | Equal par*s in weight. 100 |
| :---: | :---: |
| Tallore.-A good tallow candle, kept well fnuffed, and burning with a bright tlame, | 101 |
| The fame burning dim for want of fnuffing, | 2 |
| Olive-oil-Burnt in an Argand's lamp, with a clear bright flame, without fmoke, | 129 |
| Rape-oil-Burnt in the fame manner, | - |
| Linfeed-oil-Likewife burnt in the fame manner, | 2 |

This table, together with the current prices of the articles mentioned in it, will enable any perfon to afcertain the relatise prices of light produced by thefe materials. It is worthy of obfervation, that 100 of Argand's lamps burning with fith oil, are equal to 218 common lanps, 28 ; permaceti candles, 333 tallow ditto, or 546 wax candles, from which it evidently appears, that an Argand's lamp is vaftly fuperior, in point of economy, to any other burning body commonly made ufe of in families or in thops.

LAMP-Black, among colourmen. See Colovr-Making, No 18, 19.-Subitances painted with lamp-black and oil, are found to refilt the effects of elefricity to a furprifing degree; fo that in many cafes even lightning itfelf feems to have been repelled by them.

LAMPADARY, an officer in the ancient church of Conitantinople, fo called from his employment, which was to take care of the lamps, and to carry a taper before the emperor or patriarch when they went to church or in proceftion.

## Lampas, in Farriery. See Farrifry Index.

LAMPREy. See Petronyzon, Ichthiology Index.

LAMPRIDIUS, EliUs, a Latin hiftorian, who lived under the emperors Dioclefian and Conftantine the Great. Of his writing there are extant the $; ;$ es of four emperors, Antoninus, Commodus, Diadumenuc, and Heliogabalus. Some attribute the life of Alexander Severus to him ; but the MIS. in the Palatine library afcribes it to Spaitian.

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Lampridius, Benedic?, of Cremona, a celebrated Lampridius Latin poet of the boh century. He tauyht Greek II and Latin at Rome and at P'adua, until he was invited Lat catioi.e. to Tartua by Freduric Gonzaga to undatake the tui -to Mantua by Frederic Gonzaga to undertake the tuition of his fon. We have cpis,rams and lyric verfes of this writer, both in Greek and Latin, which were printed feparately, as well as among the Delicice of the Italian poets.

LAMPSACUS, or LAMpsicum, in sincicnt Geography, a confiderable city of Mylia; more anciently called Pityea, (Homer), becaufe abounding in pine trees, a circumitance confirmed by Pliny ; lituated at the north end or entrance of the Hellefpont into the Propontis, with a commodious harbour, oppolite to Callipolis in the Thracian Cherfunefus. It was alfioned by Artaxerxes to Themiltocles, for furniming his table with wine, in which the country abounded. It was faved from the ruin threatened by Alexander becaufe in the interelt of Perfia, by the addrefs of Anaximenes the hiftorian, fent by his fellow-citizens to avert the king's difpleafure ; who hearing of it, folemnly declared he would do the very reverfe of Anavimenes's requeft, who therefore begged the king utterly to deftroy it, which he could not do becaule of his oath. Lampfacius the epithet, denoting lafcivus, the character of the people : ftill called Lampfacus. E. Long. $28^{\circ}$. N. Lat. 40. 12.

LAMPYRiS, the Ftre-fly, a genus of infects belonging to the coleoptera order. See Entomology Index.

LANCARIM sPRiNG, the name of a mineral water of Glamorganthire. It has its name from a town near which it rifes; and has been long famous for the cure of the king's evil. The fpring is very clear, and rifes out of a pure white marl. The cures that have been performed there, are proofs of a real power in the water. The perfons who come for relief not only drink of the fpring, but alfo bathe the part affected afterwards in the water.

LANC ASHIRE, a large maritine province of England, wafhed by the Irifh fea on the weft; bordering on the north with part of Cumberland and Wellmorland; bounded on the eaft by the well riding of Yorkflire, and on the fouth by Chefhire ; extending 73 miles in length and 4 I in breadth, comprehending 6 hundreds, 63 parilhes, 27 market towns, $89+$ villages, above 114,000 houles, and more than 672,000 inhabitants in the year 1801 .

The eattern parts of the province are rocky, and in the northern diftricts we fee many fingle mountains remarkably high, fuch as Ingleborough hill, Cloughbohill, Pendle hill, and Longridge hill. Nor is there any want of wood in this county, either for timber or fuel; witnefs Wierddale forett and Bowland foreft to the northward, and Simon's wood in the fouthern part of Lancafhire.

This country is well watered with rivers and lakes. Amons the lakes or meres of Lancalhire, we reckon the Winander mere, and the Kinington mere, which, though neither fo large nor fo well itored with fifh, yet afiords plenty of excellent char. 'Ihere was on the fouth fide of the Ribble another lake called Marton, feveral miles in circumference, which is now drained, and converted into pafture ground. In this operation, the workmen found a great quantity of filh, together with eight canoes, refembling thofe of America, fup-
poled

Wancanire. pored to tave leen uted by the ancient Rritih filhermen. Be:..des t?:efe u, eres or lakes, this county abounds with morafies and mofles, from which the inlabitants dig exceilent peat or turf for fuel, as well as marl for manuring the ground, and trunks of old fir trees, fuppofed to have lain there fince the general deluge. Some of thefe are fo impregnated with turpentine, that when divided into fplinters, they burn like candles, an 1 are uled for that purpofe by the common people. There is a great variety of mineral waters in this county, fome periodical fprings, and one inflance of a violent eruption of water at Kirky in Fournefs. The molt remarkable chalybeate fpaws are thofe of Latham, Wigan, Stockport, Burnly, Bolton, Plumpton, Middleton, Strangeways, Lancafter, Larbrick, and Chorly. At Ancliff, in the neighbourhood of Wigan, is a fountain called the Burning $W_{e} / l$, from whence a bituminous vapour exhales, which being fet on fire by a candle burns like brandy, fo as to produce a heat that will boil eggs to a hard confiftence, while the nater
$\dagger$ See Burn itfelf retains its original coldnefs $\dagger$. There is at Barton ing zecit. a fountain of falt water, fo ftrongly impregnated with the mineral, as to yield fix times as much as can be extrached from the fame quantity of fea water. At Rogham, in Fournefs, there is a purging faline fountain; and in the neighbourhood of Raffal, where the ground is frequently overflowed by the fea, a flream defcends from Hagbur hills, which in the face of feven years is faid to convert the marl into a hard freeftone fit for building. The air of Lancaihise is pure, healthy, and agreeable, an obfervation equally applicableeven to the fens and the fea thore, according to the experience of thofe who have dwelt on that coalt for many years. The foil is various in different parts of the county, poor and rocky on the bills, fat and fertile in the ralleys and champaign country. The colour of the peat is white, gray, or black, according to the nature of the compofition and the degree of putrefaction which the ingredients have undergone. There is a bituminous earth about Ormkirk, that fmells like the oil of amber, and indeed yields an oil of the fame nature, both in its fcent and medicinal effects, which morever reduces raw tlefh to the confintence of mummy; this earth burns like a torch, and is ufed as fuch by the country people. The metals and minerals of this county confift of lead, iron, copper, antimony, black lead, lapis calaminaris, fpar, green vitriol, alum, fulphur, pyrites,ffreeftone, and pit and cannel coal.

The level country produces plenty of wheat and barley, and the flirts of the hills yield good harvefts of excellent oats: very good hemp is raifed in divers parts of the province; and the pafture which grows in the valley is fo peculiarly rich, that the cattle which feed upon it are much larger and fatter than in any other part of England. There is not any part of the world better fupplied than Lancaflire with provilions of all kinds at a very reafonable rate; fuch as bcef, veal, mutton, lamb, pork, poultry, and game of all forts, caught upon the moors, heaths, and commons, in the hilly part of the fhire. Betides the fea forw common to the thores of England, fuch as duck, eaferlings, teal, and plover, many uncommon birds are obferved on the coaft of Lancalhire, the fea crow, variegated with blue and black, the puffin, the cormosant, thie curlew, the razor-bill, the copped wren,

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the redthanks, the fwan, the tropic bird, the kir.g*s Lancanii fiher, \&c.

The cliief manufagures of this county are woollen and cotton cloths of various kinds, tickings, and cotton velvets, for which Manchefter is particularly famous. The principal rivers are the Reriey, which parts Che fhire and this county; and the Ribble, which rifes in York:hire, and enters this county at Clitbero, running fouth-well by Prefton into the Irifh fea. Befides thefe there are many leffer flesms. The navigation made by his grace the duke of Bridgewater in this county is higlly worthy of notice. This was begun fo lately as about 20 years ago; it bears vefels of 60 tons burden, and is carried over two rivers, the Merfey and the Irwell. The fough or adit, which was neceflary to be made, in order to drain the water from the coal mines, is rendered navigable for boats of fix or feven tons burden, and forms a kind of fubterraneous river, which runs about a mile and a half under ground, and communicates with the canal. This river leads to the head of the mines, is arched orer with brick, and is juft wide enough for the paflage of the boats: at the mouth of it are two folding doors, which are clofed as foon as you enter, and you then proceed by candle light, which calts a hivid gloom, ferving only to make darknefs vifible. But this difmal gloom is rendered ftill mose awful by the folemn echo of this fubterraneous water, which returns various and difcordant founds. One while you are ftruck with the grating noife of engines, which by a curious contrivance let down the coals into the boats; then again you hear the fhock of an explofion, occafioned by the blowing up the hard ruck, which will not yicld to any other force than that of gunpowder; the next minute your ears are faluted by the fongs of merriment from cither fex, who thus beguile their labours in the mine. You have no fooner reached the head of the works, than a new fcene opens to your vierr. There you behold men and women almof in the primitive flate of nature, toiling in different capacities, by the glimmering of a dim taper, fome digging coal out of the bowels of the earth; fome again loading it in little waggons made for the purpofe; others drawing thole wagyons to the boats. To perfect this canal, without impeding the public roads, bridges are built over it, and where the earth has been raifed to preferve the level, arches are formed under it ; but what principally ftrikes every beholder, is a work raifed near Barton bridge, to convey the canal over the river Merfey. This is done by means of three ftone arches, fo facious and lofty as to admit veffels failing through them; and indeed nothing can be more fingular and pleafing, than to obferve large veffels in full fail under the aqueduc?, and at the fame time the duke of Bridgewater's veffels failing over all, near 50 feet above the navigable river. By this inland ravigation communication has been made, with the rivers Mierfcy, Dee, Ribble, Oufe, Trent, Darwent, Severn, Humber, Thames, Avon, \&c. which navigation, including its windings, extends above 500 miles in the counties of Lincoln, Nottingham, York, Lancitier, Weilmorland, Chetter, Stafford, War:wick, Leicciler, Oxford, Worcefter, \& \& c.

Lancafhire was erected into a county palatine by Edward III. who conferred it as an appendage on his fon John of Gaung thence called duke of Lancafier: but

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ncafter, the duchy contained lands that are not in Lancahire, and among other demefnes, the palace of the Savoy, and all that diffrict in London, which indeed belong to it at this day. The revenues of this duchy are adminitfered by a court whicb fits at Weftminfter, and a chancery court at Pretton, which has a feal dittinct from that of the county palatinc. The title of Lancafier dillinguithed the pofterity of John of Gaunt from thofe of his broiher, who fucceeded to the duchy of York, in their long and bloody contell for the crown of England. Lancalhire fends two members to parliament for the county; and 12 for the fix boroughs of Lancatler, Prefton, Newton, Wigan, Clithero, and Liverpool.

LANCASTER, the capital of the county of Lancafhire in England, is pleafantly fituated on the fouth fide of the river Lun, over which there is a handfome ftome bridge. It is an ancient town, and is fuppofed to have been the Longovicum of the Romans. King John confirmed to the burgeffes all the liberties he had granted to thofe of Brillol; and Edward III. granted that pleas and feffions thould be held there, and nowhere elfe in the county. It is governed by a mayor, recorder, 7 aldermen, 2 bailifs, 12 capital burgelies, 12 common burgelfes, a town clerk, and 2 ferjeants at mace. The affizes are held in the cafte, where is alfo the county gaol. It carries on a very confiderable trade with Jamaica and the other illands in the Weft Indies, as alio with Portugal, Hamburgh, \&c. There is a market on IVednedday by grant, and another on Saturday by prefcription, befides one every other Wednefday throughout the year for cattle ; and three fairs, in May, July, and OZober. The cafle is not large, but neat and ftrong. Not very long ago, in digging a cellar, there were found feveral Roman utenfils and vefiels for facrifices, as alfo the coins of Roman emperors; fo that it is fuppofed there was here a Roman fortrels. On the top of the cafle is a fquare tower, called Yohn of Gaunt's chair, whence there is a clarming profpect of the adjacent country, and efpecially towards the fea, where is an extenfive view even to the Ife of Man. There is but one church, a fine Gothic building. It is placed on the fame elevation, and from fome puints of view forms one group with the cafle, which gives the mind a moft magnificent idea of this important place. The late confiderable additional new Atreets and a new chapel, with other improvements, give an air of elegance and profperity to the town, and the new bridge of 5 equal elliptic arches, in all 549 feet in length, adds not a little to the embellifhment and conveniency of the place. Adjoining to the cafte, the new gaol is erected on an improved plan. On the fide of the hill below it, hangs a piece of a Roman wall, called Wery Wall. Here is a cultomhoufe. By means of inlan 1 navigation, Lancafter has communication with the rivers Merfey, Dee, Ribble, Ouie, Trent, Darwent, Severn, Hunber, Thames, Avon, \&c. although fuch extenfive communication, when it was firf fuggefted, was confidered by many to ce altogether impracticable. For its peculiar government, fee Duchr-Court.

LiNCE, Lancea, a fpear; an offenfive weapon worn by the ancient cavaliers, in form of a half pike. The lance confifted of three parts, the flaft or handle, the uings, and the dart. Pliny attributes the invention of lances to the Etolians. But Varro and Aulus

Gellius fay, the word lance is Span:An; whence otiee:s Larceoisconclude the ufe of this weapon was borrowed by the people of Italy from the Spaniards. Diodorus Siculus derives it from the Gauliif, and Feltus from the il Lanch. Greek $\lambda_{0}$ र: , which fignifies the fame.

Laver, or fandeel. Sec Amitodytes, Inhthyolocy Index.

Lanceolated leaf. See Botany Index.
LANCET, a chirurgical inftrunent, fharp-pol,ted and two edzed, chietly uied for opening veins in the operativn of phlebotomy or blceding; alfo for laying open ablceffes, tumours, \&c.
LANCH, a peculiar fort of long boat, ufed by the French, Spanilh, and Italian Chipping, and in general by thofe of other European nations when cmployed in voyaging in the Mediterranean fea.

A lanch is proportionably lunger, lower, and more flat bottomed than the lung boat; it is by confequence lefs fit for failing, but better calculated for rowing and approaching a Hat fhore. Its principal fuperiority to the long boat, however, confints in being by its conitruction much fitter to under-run the cable; which is a very necellary employment in the harbours of the Levant fea, where the cables of different fhips are faftened acrofs each other, and frequently render this exercife extremely neceffary.

Lasch, is alfo the movement by which the fhip or boat defcends from the thore, either when the is at firft built, or at any time afierwards.

To facilitate the operation of lanching, and prevent any interruption therein, the flit is fupported by two firong platforms, laid with a gradual inclination to the water, on the oppofite fide of her keel, to which they are parallel. Epon the furface of this declivity are placed two correfponding ranks of planks, which compofe the bafe of a frame, called the cradle, whofe upper part envelopes the ihip's bottom, whereto it is fecurely attached. Thus the lower furface of the cradie, conforming exactly to that of the frame beton, lies that upon it lengthwife, under the oppoite lides of the hlip's bottom ; and as the former is intended to flide downswards upon the latter, carrying the fhip along with it, the planes or faces of both are well daubed with foap and tallow.

The neceffary preparations for the lanch being made, all the blocks and wedges, by which the fhip was formerly fupported are driven out from under her keel, till her whole weight gradually fubfides upon the platforms above defcribed, which are accordingly called the zays. The fhores and ftanchions, by which fle is retained upon the flocks till the period approaches or lanching, are at length cut away, and the icrews applied to move her if neceffary. The motion ufuallybegins on the inftant when the thores are cut, and the Thip fides downward along the ways, which are generaily prolonged under the furface of the water, to a fulficient depth to float her as foon as fine arrives at the fartheft end thereof.

When a thip is to be lanched, the enfign, jack, and pendant, are always hoiked, the laft being duplayed from a faff ereeted in the middle of the flip

Ships of the firt rate are commonly confructed in dry docks, and afterwards floated out, by throwing ouen the Hood cates, and fuffering the tide to enter as foon as they are finihed.

LANCEROTA,

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fancerota LiNCEROTA, ore of the Canery inlands, fub\| jeat to Spain, and fituated in W. Long. 13. 3. N. Lusd. Lat. 2S. 70 . It is about 32 miles in length and $z 2$ in breadth. The ancient inhabitants were negroes, vesy ftrong, ative, and fivift of foot. There is a ridge of hills runs quite through it, on which are fed a good number of theep and goats. They have but few black cattle, fill fewer camels, and a very few fmall horfes, The valleys are dry and fandy, yet they produce a f:nall quantity of wheat and barley. 'This illand was firf dilcovered in 1417 . In 1596 it was taken by the Eng!ilh under the command of the earl of Cunberland ; after which it was better fortified than before. There is in this inland a city called alfo Lancerota. which, at the time the earl of Cumberland was there, confifted only of about 100 houfes, all poor buildings, senerally of one ftory, and covered with reeds or ftraw laid upon a few ralters, and over all a coat of dirt hardened by the fun. There was alfo a church which had no windows in it, and was fupplied with light only by the door.

LANClANO, a confiderable town of Italy, in the kingdom of Naples, and $m$ the Hither Abruzzo, with an archbihop's fee; famous for its fairs, which are held in July and Augull. It is feated on the river Feltrino near that of Sangor. E. Long. 15.5. N. Lat. 42. 12.

LANCISI, Johy Marci, an eminent Italian phyfician, was born at Rome in $\mathbf{1 6 : 4}$. From his earlielt years he had a turn to natural hiftory; and itudied botany, chemiftry, anatomy, and medicine, with great vigour. In 1688 Pope Innocent XI. appointed him his phylician and private chamberlain, notwithilanding his youth; and Cardinal Altieri Camerlinga made him lis vicar for the inftallation of doctors in phyfic, which Pope Clement XI. gave him as long as he lived;' as well as continued to him the appointments conferred on him by his predeceflor. He died in 1710 , after giving his fine library of more than 20,000 volumes to the hofpital of the Holy Ghoft for the ufe of the public. This noble benefaction was opened in 1716, in the prefence of the pope and moft of the cardinals. He wrote many works which are efteemed, the principal of which were collected together, and printed at Geneva in 1718 . in two volumes quarto.

LAND, in a general fenfe, denotes torra firma, as diftinguifthed from fea.

LaNd, in a limited fenfe, denotes arable ground. See Agriculture.

Land, in the fea language, makes part of feveral compound terms; thus, land-laid, or, to lay the land, is juft to lofe fight uf it. Land-locked, is when land lies all round the flip, fo that no point of the compafs is open to the fea. If fhe is at anchor in fuch a place, fhe is faid to ride land-locked, and is therefore concluded to ride fafe from the violence of the winds and tides. Land.mark, any mountain, rock, fteeple, tree, \&c. that may ferve to make the land known at fea. Land is But in, a term ufed to fignify that another point of land hinders the fight of that from which the fhip came. Land to, or the hip lies land10; that is, fhe is fo far from thore, than it can only "uft be difcerned. Land-turn is a wind that in almolt 3!l hot countries blows at certain times from the ahore
in the night. To fet the land; that is, to fee by the compals how it bears.

LaND Tax, one of the annual taxes raifed upon the fubject. See liax.

The land tax, in its mudern thape has fuperfeded all the former methods of rating either property or perfons in refpect of their property, whether by tenths or fifteenths, fubfidies on land, hydages, Ccutages, or talliages: a flort explication of which will, however, greatly affift us in underftanding our ancient laws and hiftory.

Tenths and fifteenths were temporary aids iffuing out of perfonal property, and granted to the king by parliament. They were formerly the real tenth or fifteenth part of all the moveables belonging to the fubject ; when fuch moveables, or perfonal eftates, were a very different and a much lefs confiderable thing than what they ufually are at this day. Tenths are faid to have been firlt granted under Henry II. who took advantage of this fafhionable zeal for croifades to introduce this new taxation, in order to defray the expence of a pious expedition to Paleftinc, which he really or feemingly had projected againft Saladine emperor of the Saracens, whence it was originally denominated the Saladine $1 \mathrm{cn} / \mathrm{h} /$. But afterwards fifteenths were more ufually granted than tenths. Originally the amount of thefe taxes was uncertain, being levied by affefiments new made at every frefl grant of the commons, a commiffion for which is preferved by Mathew Paris: but it was at length reduced to a certainty in the eighth year of Edward III. when, by virtue of the king's commilion, new taxations were made of every townllip, borough, and city in the kingdom, and recorded in the exchequer; which rate was, at that time, the fifteenth part of the value of every townihip, the whole amounting to about 29,001 . and therefore it fill kept up the name of a fifteenth, when, by the alteration of the value of money and the increafe of perfonal property, things came to be in a very different fituation. So that when, of later years, the commons granted the king a fifteenth, every parilh in England immediately knew their proportion of it ; that is, the fame identical fum that was affeffed by the fame aid in the eighth of Edward III.; and then raifed it by a rate among themfelves, and returned it into the royal exchequer.

The other ancient levies were in the nature of a modern land tax: for we may trace up the original of that charge as high as to the introduction of our military tenures; when every tenant of a knight's fee was bound, if called upon, to attend the king in his army for 40 days in every year. But this perfonal attendance growing troublefome in many refpects, the tenants found means of compounding for it, by firlt fending others in, their fead, and in procefs of time by making a pecuniary fatisfaction to the crown in lieu of it. This pecuniary fatisfaction at laft came to be levied by affeffments, at fo much for every knight's fee, under the name of fcutages; which appear to have been levied for the firf time in the fifth year of Henry 11. on account of his expedition to Touloufe, and were then ( Sir Wm . Blackfone apprehends) mere arbitrary compofitions, as the king and the fubject could agree. But this precedent being afterwards abufed into a means

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and. "of oppretion (by levying foutages o: the ladholders by the king's authority only, whenever our kings went to war, in order to hire mercenary troops and pay their contingent expences), it became thereupon a matter of national complaint; and King John was obliged to promife, in his masna charta, that no feutage thould be impofed without the confent of the common council of the realin.

Of the fame nature with fcutages upon kinghts fees were the affelments of hadage upon all other lands, and of talliage upon cities and boroughs. But they all gradually fell into difufe, upon the introduction of fublidies, about the time of King Richard II. and King Henry IV. Thefe were a tax, not immediately impoled apon property, but upon perfons in refpes of their reputed etlates, after the nominal rate of 48 in the pound for lands, and 2s.64. for goods; and for there of aliens in a double propurtion. But this affefs. ment was allo inade according to an ancient valuation wherein the computation was fo very moderate, and the rental of the kingdom was fuppofed to be fo exceeding lore that one fubidy of this fort did not, according to Sir Edward Coke, amount to mure than 70,0001 . whereas a moderate land tas at the fame rate produces two millions. It was anciently the rule never to grant more than one fublidy and two fifteenths at a time: but this rule was broke through for the firlt time on a very prefling occafion, the Spanih invafion in 1583 ; when the parliament gave Queen Elizabeth two fubiidies and four-fifteenths. Afterwards, as money link in value, more fubfidies were given; and we have an infance, in the firit parliament of $16 \not 10$, of the king's defiring 12 fubfidies of the commons, to be leried in three years; which was looked upon as a ftartling propofal; though Lord Clarendon tells us, that the ipeaker, Sajeant Glanville, made it manifelt to the houfe, how tery inconfiderable a fum 12 fubidies amounted to, ty telling them he had computed what he was to pay for them: and when be named the furn, he being known to be polfefled of a great eftate, it feemed not werth any farther deliberation. And, indeed, upon calculation, we fhall find, that the total amount oin thefe 12 fubfidies, to be raifed in three years, is lefs than what is now raifed in one year by a land tax of 2s. in the pound.

The grant of fcutages, talliages, or fubfidies by the commons, did not extend to $\int$ piritual preferments; thofe being ufually taxed at the fame time by the clergy themfelves in convocation: which grants of the clergy were confirmed in parliament; otherxive they were illegal, and not binding; as the fame noble writer oblerves of the fubfidies granted by the convocation, which continued fitting after the difolution of the firt parliament in 1670 . A fublidy granted by the clergy was after the rate of 45 . in the pound, according to the valuation of their livings in the king's books; and amounted, Sir Edward Coke tells us, to about 20,0001 . While this cuftom continued, convocations were wont to fit as frequently as parliaments; but the laf fubfidies, thus given by the clergy, were thofe confirmed by flatute 15 Car. II. c. 10. fince which another method of tavation has generally prevailed, which takes in the clorgy as well as the laity: in recompenfe for which, the beneficed clergy have from that period been allowed to vote at the election
of knighss of the fhire; and the scetorsard alfu the practice of giving ecclefartical lublidies hath fallen into toial difufe.

The lay fubfidy was ufually railed by commilfoners appointed by the crown, or the great officers of Itate: and therefore in the beginning of the civil wars between Charles I. and his parliament, the latter having no other fufficient revenue to fupport themfelves and their meafures, introduced the praztice of laying weekly and monthly allelliments of a fecific fum unor the feveral counties of the kingdom; to be levied by a pound rate on lands and perfonal ettates: which were occafionally continued during the whole ulurpation, fometimes at the rate of $i 20,0001$. a month, fometimes at inferior rates. After the Reforation, the ancient method of granting fublidies, inftead of fuch monthly alleffiments, was twice, and twice only, renesed; viz. in 1663 , when four fubfidies were granted by the temporality and four by the clergy ; and in $: 670$, when 800,2001 . was raifed by way of fubfidy, which was the laft time of ra:fing fupplies in that manner. For the monthly affefments being now eftablished by cuitom, being raifed by commilioner: named by parliament, and producing a more certain revenue; from that time forwards we liear no more of fubfidies, but occafional alfefments were granted as the national emergencies required. Thefe periodical affeflments, the fublidies which preceded them, and the more ancient fcutage, hydayc, and talliage, were to all intents and purpofes a land tax : and the allellments were fometines exprefsly called fo. Yet a popular opinion has prevailed, that the land tax was firlt in. troduced in the reign of King William III.; becaufe in the year 1692 a new affeffment or valuation of eltates was made throughout the kingdom: which, though by no means a perfect one, had this effect, that a fupply of 500,0001 . was equal to $1 s$. in the pound of the value of ellates given in. And, according to this enhanced raluation, from the year 1693 to the prefent, a period of near a contury, the land tax has continued an annual charge upon the fubject; about half the time at $f^{5}$. in the pound, fometimes at 35. fometimes cit 2 s . twice at 1 s . but without any total intermiffion. The medium has been 35.3 J . in the pound; being equivalent to 23 ancient fuofidies, and amounting annually to more than a million and a hali ${ }^{-1}$ of money. The method of railing it is by charging a paricular fum upon each county, according to the valuation given in, A. D. 1692 ; and this fum is affeffed and raifed upon individuals (their perfonal eftate, as well as real, being liable thereto) by commifioners appointed in the act, being the principal landholders in the county and their officers.

An act paffes annually for the railing in general, $2,037,6271$. 95 . $10 \frac{1}{2} \mathrm{~d}$. by the above faid tax at 4 s . in the pound; whereof there fhall be raifed in the feveral counties in. England, according to the proportions exprefied in the act, $1,989,673$ \%. 7s. $10 \frac{1}{2} \mathrm{~d}$.; and in Scotland, 47,954 . 1s. 2d. by an cight months cels of $599.7^{1} .5 \mathrm{~s}_{.} 1 \frac{3}{\mathrm{~d}}$. per me.7 em , to be raiied out of the land rent, and to be paid at four terms, as fpecified in the act, by tro months amount each timc.

LAND Waiter, an officer of the cuftomhoufe, whofe duty is, upon landing any merchandife, to examine, tafte, weigh, meafure them, \&ic. and to take an"accouire thereof.

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Zandag thereni. In fome ports they alfo execute the office of a coaft waiter. They are likewife occafiunally fyled farchers, and are to attend and join with the patent feascher in the exceution of all cockets for the thipfinig of goods to be exported to foreign parts; and inca fes where drawbacks on bounties are to be paid to the merchant on the exportation of any goods, they, as we!l as the patent fearchers, are to certify the thipping thereof on the debentures.

LANDAFF, a town or village of Glamorganhire in South Wale, with a bihop's fee, and on that account has the title of a ciry. It is feated upon an afcent on the r ver Taff, or Tave, near Cardiff; but the cathedral flands on a low ground, and is a large ftately building. The original Aructure was built absut the beginning of the 12 th century. The building now uled as the cathedral includes part of the boly of the ancient one; but is in other refpects as modern as the prefent century, about the middle of which the old church underwent fuch reparation as was almoft equivalent to rebuilding. The ruins are at the wett end of the modern church, and confift of the original weftern door-way, and part of the north and fouth fides. The arch over the door is circular, anll has a well carved epifoopal flatue immedintely over it. On the upper part of the front under which this dour ftands is a whole length figure of the Virgin Mary, with a crofs on the apex of the building. In this front are two rows of neat pointed arches for window ; and on the north and fouth fides a'ove mentioned are two circular don-cafes half funk in the earth. Thefe ruins eshibit an afpect very different from the prefent cathedral, the new part of which the atclitect formed principally on the Roman model, withour confidering bow incongruans this fyle of architecture is with the plan purfued in the ancient part.-L Landaff is a place of but fmall extent, and has no market. It is a port town, however, and carries on a good trade, as it has a very toierable harbour that opens into the river Severn about four miles diRast. The ruins of the bithop's paiace flow it to have been cattellated. It was built in 1120, and was deftroyed by Henry IV. W. Long. 3. 20. N. Lat. 51 33.

LANDAU, an ancient, handfome, and very ftrong town of France, in Lower Alface. It was formerly imperial, and belonged to Germany, tiil the treaty of Munfer, when it was given up to Frarce. It is feated on the river Zurich, in a plealant fertile country. It was feverely bombarded by the allies in 2793, but they were obliged to raife the fiegc. E. Long. 8. 12. N. Lat. 49.12.
J.ANDEN, a town of the Auftrian Netherlands, in lirabant, famsus for a battle gained over the French by the allice, in July 1693, when 20,000 men were 1. $\mathrm{H}^{1}$ led. It is fented on the river Beck, in E. Long. 5.5. N Lat. 'e2. 45.

Lavnes, fohn, F. R. S. an eminent mathematician, was born at Peakink, near Peterbororgh in Northampronfhiro, in January 1710 . He became very early a proficint in the mathematics, for we find him a very refpectable contributor to the Ladies Diary in 17 tt ; and he was foon among the foremof of thofe who then comribued to the fupport of that fmall but saluable publication, in which almult every Engiih ma-
thematician, who has arrived at any degree of eminence for the laft half century, has contended for fame at one time of lis life or other. Mr Landen contunued his contributions to it at times, and urider one lignature or other, till within a few years of his ceath.

It has been frequently obterved, that the hiftories of literary men contift chiefly of a hiftory of their writings, and the obfervation was never more fully verified than it will be in this article concerning II L Landen.

In the $4^{8 \text { th }}$ volume of the Philofophical Tranfactions for the year 1754 , Mr Landen gave "An inveftigation of fome theorems which luggett feveral very remarkable properties of the circle, and are at the fame time of confiderable ufe in refolving fractions, the denominators of which are certain multinomicils, into more fimple ones, and by that means facilitate the computation of fluenis." This ingenious paper was handed to the Society by that eminent mathematicion the lote Thomas Simpfon of W'oolwich; a circumftance which will convey to thofe who are not themelves judges of it fome idca of its merit. In the year 1755, he pub. lithed a volume of about 160 pages, entitled "Mathematical Lucubrations." 'I he titie to this publication was made choice of as a means of informing the world, that the fudy of the mathematics was at that time rather the purfuit of his leifure hours than his principal employment ; and indeed it continued to be fo the greatef part of his life, for about the year 1762 he was appointed agent to the right honourable the earl Fitzwilliam, and refigned that employment only two years before his death. Had it been otherwife, it feems highly probable he would have extended his zefearches in the mathematics, to which he was moft enthufiafti. cally devoted, much farther than any other perfon has donc. His lucubrations contain a variety of tracts re. lative to the rectification of curve lines, the fumma. tion of feries, the finding of fluents, and many other points in the higher parts of the mathematics. About the latter end of the year 1757, or the beginnisg of 1.758, he publified propofals for printing by fubreription " The Reindual Analylis, a new branch of the Algebraic art: :" and in $175^{8}$ he publifhed a fmall traé in quarto, entitled "A Difcourle on the Relidual Analyfis," in which he refolved a variety of problems, to which the method of fluxions had been ufually applied by a mode of reafoning entirely new; com-- pared thofe folutions with folutions of the fame problems, inveftigated by the fluxionary method; and fhowed that the folutions by his new method were, in general, more natural and elegant than the fluxionary ones.

In the 51 ft :oleme of the Philofophical Tranfactions for the year 1760 , he gave "A new method of cumputing the fums of a great number of infinite feries." This paper was alfo prefented to the fociety by his ingenious friend the late iir Chomas Sinpfor. In 3774, he publihert the first book of "The Retidual Analyfis," in a fio volume of 218 pagec, with fereral copperplates. In this treatife; belides evplaining the principles which his new analyfs was founded on, he applied is to draning tangents, and finding the propertics of curve lines; to defcribing their involutes and evolutes, finding the radius of curvature, insir greatelt and leaft ordinaim, a:d pints of contrary fuxure; to the deiermination of their cufps, an? the

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anden. dra:cing of afiymptotes: and he propofed in a fecond book to cstend the application of this new analy fis to a great variety of mechanical and pliyifical fubjects. The papers which were to have formed this book lay long by him; but he never found leilure to put them in order for the prefs.
On the 16 th of January ${ }_{17} 766$, M r Lenden was elscted a fellow of the Royal Society, and admitted on the 2.4th of April following. In the 5 Sth volume of the Philofoplical Tranfactions for the year 1768 , he gave a "Specimen of a ness method of corparing curvilineal areas; by means of which many areas are compared, that did not appear to be comparable by any other method ;" a circumitance of no fmall importance in that part of natural philofophy which relates to the doctrine of motion. In the 60 th volume of the fame work fur the year 1770, he gave "Some news theorems for computing the whole areas of curve lines, where the ordinates are exprefled by fractions of a certain form," in a more concife and elegant manner than had been done by Cotes, De Moivre, and others who had confidered the fubject before him. In the 6 fl volume for 1771 , he has inveftigated feveral new and ufcful theorems for computing certain fluents, which are affignable ly arcs of the conic fections. This fubject had been confidered before both by Mr Maclaurin and M. d'Alembert ; but fome of the theorems which were given by the fe celebrated mathematicians, being in part exprefied by the difference between an arc of a hyperbola and its tangent, and that difference being not directly attainable when the are and its tangent both become infinite, as they will do when the whole fluent is wanted, although fuch fluent be finite ; thefe theorems therefore fail in thofe cafes, and the computation becomes impracticable without farther help. This defect Mr Landen has removed by affigning the limit of the difference between the hyperbolic arc and its tangent, while the point of contact is fuppofed to be removed to an infinite diftance from the vertex of the curve. And he concludes the paper with a curious and remarkable property relating to pendulous bodies, which is deducible from thole theorems. In the fame year he publithed, "Animadverfions on Dr Stesart's computation of the fur's dillance from the earth."

In the 65 th volume of the Philofophical Tranfactions for ${ }^{1775}$, be gave the invelfigation of a general theorem, which he had promifed in 1771. for finding the length of any are of a conic hyperbola by means of two elliptic arcs; and obferves, that by the theorems there inveftigated, both the elaflic curve and the curve of equable recefs from a given point, myy be conftructed in thofe cafes where Mr Maclsurin's elegant method fails. In the 67th rolume for $1:-77$, he qave "A new theory of the motion bodies revolving about an axis in free fpace, when that motion is diflutbod by fome evtaneuus force, either percutive or accelerative." At th:s time he did no: $k$.ow that the fubject had been handlift y any perfon before him ; and he confidered only the motion of a fohere's funerid and cylinder. The purlication of this paper, however, was the caufe of his being told, that the "nctrine of rntatory motive had ben conthere ivit. d'Alembert; and purchaing ihat auth r' Opofrult Molliematigues, he there learned that inh. d'Alembert
was not the only one who had confidered the matter before him; for M. d'Alembert there feaks of fonc mathematician, though he does not mention his name, who, after reading what had been writen on the fubject, doubted whether there be any folid whatever, befides the fphere, in which any line, pafling through its centre of gravity, will be a permanent axis of ro:ation. In confequence of this, Mr Landen took up the fubject again; and though he did not the ngive a folution to the general problem, viz. "To determine the motions of a body of any form whatever, revolving without reftraint about any axis pafing through its centre of gravity," he fully removed every doubt of the kind which had been ftarted by the perfon alluded to by M. d'Alembert, and pointed out feveral bodies, which, under certain dimenfions, have that remarkable property. This paper is given, among many others equally curious, in a volume of Aemoirs which he publilled in the year 1780 . But what renders that volume yet more valuable, is a very extenfive appendix, containing "Theorems for the calculation of fluents." The tables which contain thefe theorems are more complete and extenfive than any which are to be found in any other author, and are chiefly of his own inventigating; being fuch as had occurred to him in the courfe of a long and curious application to mathematical fludies in almoft every branch of tho"e fciences. In 1781, 1782, and 1783 , he publihed three little tracts on the furamation of converging feries, in which he explained and fhowed the extent of fome theorenss which had been given for that purpofe by M. de Moivre, Mr Sterling, and his old friend Thomas Simpfon, in anfwer to fome things which he thought had been uritten to the difparagement of thofe excellent ma. thematicians. It was the opinion of forme, that Mr Landen did not fhow lefr mathematical dkiil in explaining and illuftrating thefe theorems, than he has done in his writings on original fubje?s; and that the authors of them were as little aware of the extent of thcir own theorems as the refl of the world were before Mr Landen's ingenuity made it obvious to all.
About the beginning of the year 1782, Mr Landen had made fuch improvements in his theory of rotatory motion, as enabled him, he thought, to give a folution of the general problcm fpecified above; but finding the refult of it to differ very materially from the refult of the folution which had been given of it by MI d' $A$ lembert, and being not able to fee clearly where that gentleman had erred, he did not venture to make his own folution public. In the courfe of that year, having procured the Memoirs of the Berlin Academy for 1757, which contain M. Euler's folution of the problem, he found that this gentleman's folution gave the fame refult as bad been deduce1 by M. d'Alembert ; but the perfpicuity of M. Euler's manuer of wrieng enabled him to difover where he hat erred, which the onfcurity of the other did not do. "he agriement, however, of two "riters of lush eitablidic. reputation as 31 . Euler and Ni. d'Aiembert made him long dubious of the truth of his own foiution, and indused him to revife the procefs again and again with th. utmof circumapection; and beiner every time mo. samen! that lis riwn folutich was ight and wron , ie at leng:h gave to to the vilic in vulume of the Philofophical Tranfactions for …

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Eander- The extreme difficulty of the fubjest, joined to the neau, concife manner in which Mr Landen 'ad been obliged to give his folution in order to confine it within pro-
per limito for the Tranfactions, rendered it too dificult, cr at lealt too laborious, a piece of bulinefs for moit mathematicians to read it ; and this circurntiance, joined to the ettablished reputation of Euler, induced many to think that his folution was right and Mr Landen's wrong; and there di! not want attempts to preve it. But notwithftanding thefe attempts were manifelly wrong, and that every one who perufed them faw it, they convinced Mr L Landen that there was a neceflity for giving his folution at greater length, in order to render it more generally underflood. About this time alfo he met by chance with the late P. Frifi's Cofmosraphise Physicae et Mathematicue; in the fecond part of which there is a folution of this problem, agreeing in the refult with thofe of M. Enler and D'Alembert, which is not furprifing, as P. Frili employs the fame principle that they did. Here Mr Landen learned that M. Euler had revifed the folution which he had given formerly in the Berlin Memoirs, and given it another form and a greater length in a volume publifhed at Gryphifwell in 1765, entitled Theoria Motus corporum folidorum feu rigidorum. Having therefore procured this book, Mr Landen found the fame principles employed in it, and of courfe the fame conclufion refulting from them that he had found in Mr Euler's former folution of the problems : but as the reafoning was given at greater length, he was enabled to fee more diflinctly how M. Euler had been led into the miflake, and to fet that miltake in a ftronger point of view. As he has been convinced of the neceffity of explaining his ideas on the fubject more fully, fo he now found it neceflary to lofe no time in fetting about it. He had for feveral years been feverely afflicted with the ftone in the bladder, and toward the latter part of his life to fuch a degree as to be confined to his bed for more than a month at a time: yet even this dreadful diforder did not abate his ardour for mathematical fudies; for the fecond volume of his Memoirs, juft now publifhed, was written and revifed during the intervals of his diforder. This volume, hefides a folution of the general problem concerning rotatory motion, contains the refolution of the problem concerning the motion of a top; an invelligation of the motion of the equinoxes, in which Mr Landen has firlt of any one pointed out the caufe of Sir Ifaac Newton's miftake in his folution of this celebrated problem; and forme uther papers of confiderable importance. He juft lived to fee this work finithed, and received a copy of jt the day before his death, which happened on the ${ }^{5} 5^{\text {th }}$ of January 1790, at Milton, near Peterborough, in the 71 ll year of his age.

LANDERNEAU, a town of France, in Lower Bretagne, now the department of Finillerre, feated on the river Ethorn, 20 miles eaft of Breft. In an inn here is a well which ebbs and flows like the fea, but at contrary times. E. Long. 4. I3. N. Lat. 48. 25.

LANDGRAVE, (formed of the German land, " earth," and graff, or grave, " judge" or " count") ; a name formerly given to thole who executed juftice in bithalf of the emperors, with regard to the internal rolicy of the country. The title does not feem to
lave been ufed before the isth century. Thefe judges Lang:a were firlt appointed within a certain diftrict of Germany: in procefs of time the title became hereditary, and thefe judges affumed the fovereignty of the feveral diftricts or counties over which they frefided. Landgrave is now applied by way of eminence to thole fovereign princes of the emvire who noffefs by inheritance certain eftates called landgravates, and of which they receive the inveltiture of the emperor. There are four prisces who have this title, viz. thofe of Thuringia, Heffia, Alface, and Leuchtemberg. There are alfo other landgraves, who are not princes but counts of the empire. See Count.

LANDGRAVIATE, or LaNDGRAVite, the office, authority, jurifdiction, or territory of a landgrave.

LANDGUARD FORT feems to belong to Saffolk, but is in the limits of Eliex, and has a fine profpect of the coalts of both counties. It was erected, and is maintained, for the defence of the port of Harwich over againft it ; for it commands the entry of it from the fca up the Maningtree water, and will reach any hip that goes in or out. It is placed on a point of land fo furrounded with the fea at high water, that it looks like a little ifland at leaft one mile from the fhore. The making its feundation folid enough for fo good a fortification coft many years labour and a prodigious expence. It was built in the reign of King James I. when it was a much more confiderable fortification that now, having four baftions mounted with 60 very large guns, particularly thofe on the royal baftion, which would throw a 28 pound ball over Harwich. Here is a fmall garrifon, with a governor, and a platform of guns. This fort is refitted and greatly enlarged for the conveniency of the officers of ordnance, engineers, and matroffes; and a barrack built for the foldiers.

LANDISFARN, or Lindesfarn. See Holy Ifand.

LANDRECY, a town of the French Netherlands, in Hainault, ceded to France by the treaty of the Pyrenees, and is now very well fortified. It was befieged by Prince Eugene in 1712 , but to no purpofe. It was taken hy the allies in April 179.4, but retaken in July following. It is feated in a plain on the river Sambre, in E. Long. 3. 47. N. Lat. 50. 7.

LANDSCAPE, in painting, the view or profpect of a country extended as far as the eye will reach. See Painting and Drawing.

LANDSCROON, a fea port town of Sweden, in South Gothland, and territory of Schonen, feated on the Baltic fea, within the Sound, 22 miles north of Copenhagen. E Long. 14. 20. N. Lat. 55.42.
L. ANSDOWNE, a town in Somerfethire, near Bath, where there is a fair in O\&tober for cattle and cheefe.

LANDSHUT, a frong town of Germany in Lower Bavaria, with a ftrong caftle on an adjacent hill. It is leated on the iver Ifer, E. Long. 12.10. N. Lat. 48. 23. There is another fmall town of the fame name in Silefia, and in the duchy of Schweidnitz, feated on the river Zeider, which falls into the Bauber: and there is alfo another in Moravia, feated on the river Morave, out the confines of Hungary and Auftria.

LANDSKIP.

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LANFRKSHIRE, or LANARKSHIRI, a county of S ut!and, called alfo Clydefdale, from the river Clyde bv which it is watered. It is bounded on the north by the county of Dumbarton ; on the eaft by Stirling, Linlithow, Edinburgh, and Peebles, hires; on the fouth hy Dumfries; and on the welt by Ayr and Renfrew Rlires. lis extent from north to fouth is about 40 miles, fromeaft to welt 36. The river Clyde, defcerding from the fouthern part of this county, divides it into two almoft equal parts; and after a courfe of aburt 50 miles, meets the tide a little below Glafgow; (fee Glascow). Proceeding up the river from Glafgow, the country is rich and well cultivated. Bothwell calle, now in ruins, ftands on an eminence which overlouks the Clyde. Some of its walls ate Itill remaining, which meafure 15 feet in thicknefs and 60 feet in height. Between this cafle and the priory of Blantyre on the oppofite fide of the Clyde, there is faid to have been in ancient times a lubterrancous paflage under the river. A little above $\mathbb{C}$ ands Bothwell hridge, noted for the defeat of the Covenanters by the duke of Monmouth in 1679.-Eaft from Bothwell calle, in an elevated fituation, llands the Kirk of Shotts, amid a wild and barren country. This dreary watte is covered with heath; and though a high fituation, is flat, and very marny in many places. It is chielly employed as fleep nalks; and notwithflanding the vicinity of coal and linee. feems farce capable of cultivation. This want is, however, compenfated by the abundance of iron fone and coal, which are bere brought together by the hand of nature. Nor is this advantage con: ned to the barron tract in the north-eall comer of the thire. The whole county abounds with thefe valualle minerak; and two iron works are erefled on the banks of the Clyde, one a little above Glafgow, and another at Cleland niear Hamilton. But the moft cci.fi e able work of this kind in the county is that of ('eugh, a few miles routhean from the Kirk of Shotis. A vilage is here built for the accommodation of the sorkmen. It is called Wilfomoun from the name of the proprictors. There are befide thefe, two other iron works in this county, one on the banks of the Cadler near Airdrie, and the other at Shonts. - The frrall borough of Lanerk is fituated on the brow of a hill, on the north ear lide of the Clyde, commanding a fine profpect ever tle river. In this neighbourlood are forme of the greatell co:ton manufactories in Scotland. The Clyde near this place runs for feveral miles between high rocks covered with woods; and in its courfe exhibits many allnnifting cataracts. (fee the article Clyde). - Trom Lanerk, pafing the village of Carfairs. a few miles to the eaft we meet the fmall town of Carnwath. In this neiuhbourhood, and along the Clyde to the fouth-eaft, there is much cultivation and rich pafture.-To the fowit ifarnuath is the town of Biggar; where is feen the ruin of a collegiate church founded in 1545 -T The lands about the villages of Coulter and Xammington are fertile; but farsher up $:^{1}$ Clyde we meet with mothing but Seep walks and paflure grounds in tracing it to its fource.

In the feuthern part of the finire, gemorally called Clydefdale, the country is not lers milh. Among the n.cuntains here, or rather in a hnllow near their fumVos, XI. Yare II.
mit, we meet with the village of Leadhills, by fome Linerk: faid to be the lighedt human habuation in the illand
hr: of Great Britain. Hcre, however, refide many hundreds of miners with their families. Thefe mners, though in a great meafure e..cluded from fuciety by their fituation, yet not only find meaus to procure a comfortable fubliftence, but alfo pay more attention to the cultivation of the mind than many of their countrymen fituated feciningly in more favourable circumAtances for the attaiment of knowledge. As an evidence of this, they are very intelligent, and have provided a circulating library for the inftruction and amufement of the little community belonging to the village:-Amid thefe mountains particles of gold have fometines been found wafhed down by the rairs and ftreams of water; but this defert tract is chielly valuable for producing metals of inferior worth. "Nothing (fays Mr Pemant) can equal the glvomy appearance of the country round. Neither tree, nor fhrub, nor verdure, nor picturefque rock, appear to amufe the eye. The fpectator mult plunge into the bowels of thefe mountains for entertainment." The veins of lead lie molly worth and fouth; and their thicknefs varies from a few inches to 20 inches and two feet. At one place the Sufannah vein (the richell ever difcovered at Leadhills) frelled out to the extraordinary thichnefs of 14 feet. Scme have been found filled with ore within two fathoms of the furface; others fink to the depth of 90 fathoms. The earl of Hopcton, the proprietor, has in his poffeftion a fol:d mafs of lead ore from thefe mincs weigling five tons. His lordflip has alfo, it is faid, a piece of native gold that weighs two ounces, which was found nere. The lead fmelted at this place is all fent to Leith, where it has the privilege of being evported free of duty. The icamy palture EEorded by this barren region feeds fome theep and cattle; but thofe in the neighbourhood of the mines fometimes perifh by drinking of the water in which the lead ore has been wafhed: for the lead ore communicates a deleterious quality to the water, though that liquid acquires no hurfful taint from remaining in leaden pipes or citterns. North from this mountainous regron lies Crawford muir.

About nine miles north of Leadlalls, on the eaft fite of the fmall river Douglas, which falls into the Clyde a few miles below, ftands Dunglas caille, for many ages the relidence of the fecond family in Scotland. A modern building has been creéed on the fans fite, in initation of the ancient cafle. Near it flands the town of Douglas. A few miles to the noth-ean is 'Vinto, a remarkabie cenic mountain, round the bate of which the Clyde mshes a woble fweep. Wellward, beyond Douglas, the riser Nethan defcends into the Clyde through the pojul us parils of Sefinahago.-Hamilton houle, the feat of the duke of Hamilon, fands in a plain betwern the rivers Civde and Avon. It is a magnificent flrusture, flarrown d by many venerable oaks. In the vicinity is the to n $n$ of Haniton, whic! contains many handfone heufer: (fee Hammion). liene are feca the ruins of a collegiate churcl, foanded in 145 \% At a litule ditance from Hamituon houfe is an clegant appendage to it, called Chacelkeroult, the name of tre anciont purathuns hold by the fandily i: Fraice. 'thin building in frated on the river Avon, and is furrowigded by wood, aid
L A N

## I. A. N

Ianert:- deep dells, and every rual beauty that can produce a
mire, Lanefborough.
pleafing effect on the imagination.-On the weft of Hanilton is the little town of Kilbride; and to the fouth that of Stratnaren, furrounded by the fertile traet from which it derives its name. In our way from Hamilton to Glafgow we meet with the ancient horoush of Rutherglen, inhabied chicfly by weavers and other manufacturers : and the village of Govan fiands on the fame fide of the river on the road from Glafyow to Renfrew.

The population of this county in 1801 amounted to 147,796 ; but as it is flated in the Statiftical Hifory, according to its parilhes, it is the following :

| Parighes. | Pupulation in $1755^{\circ}$ | Popularion in 179c-179s. |
| :---: | :---: | :---: |
| 1 Avendale | 3551 | 3343 |
| Biggar | 1098 | 937 |
| Blantyre | 406 | 1040 |
| Bothwell | 1561 | 2707 |
| 5 Cadder | 2396 | 1767 |
| Cambuflang | 934 | 1288 |
| Cambufnethan | 1429 | $168+$ |
| Carluke | 1459 | 1730 |
| Carmichael | 899 | 781 |
| 10 Carmunnock | 471 | 570 |
| Carnwath | 23.90 | 3000 |
| Cartairs | 845 | 924 |
| Corington | 521 | 484 |
| Crawford | 2009 | 1490 |
| 1 ; Crawford John | 765 | $59^{\circ}$ |
| Culter | 422 | 326 |
| Dalferf | 765 | 1100 |
| Dalziel | 351 | 478 |
| Dolphington | 302 | 200 |
| 20 Doufglas | 2009 | 1715 |
| Dunfyre | 359. | 360 |
| Glasford | 559 | 788 |
| $\left.\begin{array}{l} \text { Glafgow } \\ \text { Dc. Barony } \end{array}\right\}$ | 27,451 | 58,401 |
| $\left.25 \begin{array}{l} \text { Gorbals } \\ \text { Govan } \end{array}\right\}$ | $43^{89}$ | $9 \times 66$ |
| Hamilton | 3815 | 5017 |
| Kilbride | 2029 | 2359 |
| Lamington | 599 | 417 |
| 30 Lanark | $2 * 9+$ | 4751 |
| Lefmahago | 3996 | 2810 |
| Libberton | 738 | 750 |
| Monkland, New | 2713 | 3560 |
| Monkland, Oid | 1813 | 4000 |
| 35 Pettinain | $33^{\circ}$ | 386 |
| 3 Robertoun | 1102 | 740 |
| Rutherglen | 988 | 1860 |
| Shots | 23.32 | $20+1$ |
| Stonekoufe | 823 | $1 \mathrm{c}^{6} 0$ |
| 40 Syınin tors | 264 | 307 |
| 41 Waliton | 478 | 427 |
|  | 81,726 | $\begin{array}{r} 125,254 \\ 81,726 \end{array}$ |
|  | Increafe | 43,528 |

1. ANESBOROLTGH, a borough town of Ireland, in this county of Longford and province of Leinfter, fituated on the river Shannon, 62 miles from Dublin.

This town gave titl: of vifcount to the family of J,ane, a bridge over the Stannon at Lane borough into the county of Rofcommon. N. Lat. 53.40. W. Long. 3.6.

LANFRANC, an Italian, born at Pavia, became archbifrop of Canterbury in 10ヶ0. He diffuted againt Berengarius in the council held at Rome in 1059, and wrote agrant him concerning the real prefence m the cuchariif. He had other dipputes, \&c. and died in 1089.

Lanfranc, John, an eminent Italian hifory painter, born at Parma in 158r. He was firf the diciple of Augultin Caracci ; and, after his death, of Fiamibal, whofe tatte in defign and colouring he to happily attained, that he was intrulted to execute fome of his defuris in the Farnefian palace at Rome. Thele he finifhed in fo mailerly a manser, that the diflerence is imperceptible to this day between his work and that of his matter. ISis genius disected him to grand compofitions, which he had a peculiar facility in defigning and in painting either in frefco or in oil; he did indeed afpire to the grace of Correggio, but could never arrive at his excellence; his greatell power being manifefted in compofition and fore thortening. He was deficient in correctrefs and expreffion; and his colouring, though fometimes admirable, was frequently too dark. By order of Pope Urban Vill. le painted in St Peter's church at Rome the reprelentation of that faint walking on the water, which afforced the pope fo much fatisfaction that he knightated him. He died in 1647.

LANGBAINE, Gerard, D. D. a learned EngJifn writer, was born in 1608 . He was educated at Queen's college, Oxford; and became keeper of the archives of that univerfity, and provolt of his college. He was highly efteemed by Archbinop Uther, Selden, and other learned men; he died in $165 \%$. He publithed, 1. An rdition of Lonerinus, in Greek and Latin, with notes; and other works.

Langbane, Gerard, an eminent writer, the fon of the former, was born in 1656 . He was put apprentice to Mr Symonds, bookfelier in St Paul's churchyard: but was foon after called from thence by his mother upon the death of his eldeft brother, and by her entered a gentleman commoner of Univarfity college, Oxford, in 1672 . Here be run out a good part of his eftate; but afterwards corrected his manner of living, and for fome years lived in retirement near Oxford. During this time he improved his tafte for dramatic poetry ; and at firf wrote fome fmall pieces without his name, buit afterwards publifted feveral works which he publicly owned. In 1690 he was elected inferior beadle of arts in the univerlity of Osford; and, in January following, was chofen fuperior beadle of law:, but died fron after in 1692 . He wrote, !. The hunter, a difcourfe on horfemanflip. 2. A new catalogue of Englilh plays with their beft cditions, and divers remarks on the originals of molt plays, and on the plagiaries of feveral authors. 3. An account of the Englifidramatic poets.

LANGELAND, Robert, an old Englifh poet of the $14^{\text {th }}$ century, and one of the firft difciples of Wicklifie the reformer. He is faid to have been born in Shroplhire. He irrote The vifions of Pierce Plowman; a piece which abounds with imagination and humour, though drefied to great difadvantage in very uncouth

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inge'and verfication an 1 offolete 1 mgnage. It is writen withII unt rivme, and ormament which the paee has endeavoured t, fupgly by making every verfe berin with the fane letter. Dr Hickes obferves, that this kiad of alliterative verification was adopted by Lancelan from the pratice of the swo: poets, and that thele viions abound with S:xenifm: he tlyles him celderrimus ille fatiogrophur, morum vinder acerrimus, \&\&c. Chaucer and Sperice have attempted iantations of his vilions, and the learned Selden mentions him with honour.

Langelacin, an illand of Denmark in the Baltic fea, in the flrait called the great beh, and between Zaland, Saland. an Fyonia. It produces plenty of corn, and the principll town is Kutcoping. E. Long. 11. 10. N. Lat. 5\%. 0.

L INGETZ, a town of France, in Touraine, noted for its excellemt meins. It is feated on the river Leire, is E. Long. O. 23. N. Lat. 42.20.

LANGHORNE, Joan, D.D. was bom at KirkbyStaphen in Weltmorland. His father was the reverend Iohn Langhorne of Winton, who died when his fon was young. Aiter entering into holy orders, he besame tutcr to the foas of Mr Cracroft, a Lincolnhire gentleman, whofe daughter he married. The lady in a thort time died: and the lofs of her was very patheticaily lamented by her huffand in a monoly; and by another gentlemin, Mr Cartwright, in a poem entitied "Contantia." Di Langhorne held the living of Blagden in Somerfethire at the time of his death, which happened April 1. 1779. He was the author of \{everal literary productions; amonglt others, of Poerns in two vols ry56; Sermons in 2 vols 1793 ; Effulions of Fancy, 2 vols; Theodofius and Conthantia, 2 vols; Solymion and Almena; Frederic and Pharanond, or the Confolations of Human Life, 1769; a Difertation on the Eloquence of the Pulpit, and another on Religious Retirement; and he was editor of the Works of St Ewremond, of the Poems of Collins, and fome other articles.

LANGIONA, a large, rich, and frong towis of Afra, eapital of the kingdom of Laos, wit! a large and magnificent palace where the king refides. E. Long. 96. 45. N. Lat. $22.3^{8 .}$

LANGOBARDI, a people of Germany fituated between the Eloe and the Oder, in the Marche of Brandenbarg, whom their paucity ennobled; in regard that, being encompaifed by many and powerful Hations, they prefer"ed themfelves, not fo much by fubmiffion, as by dint of arms and encountering dangers, (Tacitas).

LANGPORT, a to min in Somerfethire, 132 miles from London, is a well frequented torm on the Parrot, between Bridgerater and Crewkern. Here are lighters which are conftatly employed in carrying coals, \&c. from Bridgerwater. Eels are taken in valt plenty oat of the holes of the hanks of the river in frofly weather.

LANGRFLL shot, at fea, that confiting of two bars of iron poined by a chain or thackle, and having half a ball of iron fixed on each end; by means of which apparatus it does great execution among the enemy's rigging.

LANGRES, an ancient and confiderable town of France, in Champagne, with a billop's fee. The cutlery wares male here are in higl enteem. It is feated on a mountain near the river Marne, in E. Long. 4. 2 2. N. Lat. 47.52.

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LANGTON, Stephes, wds born in F.mpland, but Langoon. edueated at Paris, and was greatly elteerned for his Lampuxpe. learning by the king and nobility of France. He was chancellor of Paris, a cardinal of Rome, a:d in the reign of King John was malle archbithop of Canterbury by Pope tmocent 1II. i: oppofitim hoth to ihe: monks of Canterbury and to the hiag. Langton wis one of the mot illallious men of his age for tenruiny; and contilued arctibithop 22 years, dying in 1223. A catalogue of F is books is given by Bale and Tamer.

LANGUAGE, in the proper fonle of the word, Definition. fignilits the expretion of our ideas and their warions relations by certain articulate founds, whirh are ulecd as the figns of thofe idens and relations. By articulate found are meant thofe molulations of timple voice, or of found emitted from the tharas, which are formed by means of the mouth and its feveral organs,--the teeth, the tongue, the lips and the palate. In a more general fenfe of the word, language is fometimes ured to denote all founds by which aninals of any kind exprefs their particular feeiings and inpulfes in a manner that is intelligible to their own fpecies.

Nature has endowed every animal with posers fufficient to make known all thofe of its fenfations and defires, with which it is neceffary, for the prefervation of the individual or the continuance of the kind, that others of the fame fpecies thould be acquainted. For this purpofe, the organs of all vocal animals are fo formed, as, upon any particular impulfe, to ntter founds, of which thofe of the fame feecics in:linetive!y know the meaning. The fummons of the hen is inftantly obeycd by the whole brood of chickens; and in mainy others of the irational tribes a fimilar noode of conmunication may be obferved between the parents and the offspring, and between one animal and its cuftomary aifociate. But it is not among animals of the fame fipecies only that thefe inflinctive founds are mutually underfond. It is as necelfary for animals to know the Language voices of their enemies as the voice of their friends; and in what rethe roaring of the lion is a found, of which, previous to foeas difall experience, every beall of the foreft is naturally the inftincafraid. Between thefe aminal voices and the langunge tive cries of of men there is however very little analogy. Humanamimels. language is capable of exprefling ideas and notions, which there is every reafon to believe that the brutal mind cannot conceive. "Speech (fays Ariftotle) is made to indicate what is expedient and what inexpedient, and in confequence of this what is jult and unjult. It is therefore given to men; becaule it is peculiar to them, that of good and evil, juft and unjuift, they only (with refpect to other animals) poffefs a lemie or feel. ing." The voices of brutes feem intended by nuture to exprefs, not diftinct ideas or moral modes, but only fueh feelings as it is for the grod of the fpecies that they hould have the power of making known; and in this, as in all other refpects, thefe voices are analogous ; not to our efpeaking, but to our weeping, laughing, finging, groaning, fereaming, and wher natural and audiblc expreffions of appetite and paffion.--Another difference between the language of men and the voices of brute animals confifts in articulation, by which the former may be refolved into dillinct elerrentary founds or fyllables; whereas the latter, being for the nolt part unartuculated, are not capable of fuch a refolution. Hence. Homer and Hefiod characterife man by the epi-

Languare thet figov, or "voice-dividing," as denoting a power peculiar to the human fecies; for though there are a + The par. few birds + which ttter founds that may be divided inrot, cuckoo, to fyllables, yet each of thefe birds uiters but one fuch and Eaft India bird called cocEatoo, \&ic. found, which feems to be employed rather as notes of natural mufic than for the perpofe of giving information to others ; for when the bird is agitated, it utters cries which are very different, and have no articulation.

Not from nature o imfinst, but - A third difterence between the language of men and the fignificant cries of brute animals, is, that the former is from att and the latter from nature. Every human language is leamed by imitation, and is intelli. giole orly to thofe who either inhabit the country where it is vernacular, or have been taught it by a mafter or by books: but the roices in queftion are not learned by imitation; and being wholly inftinctive, they are intelligible to all the animals of that fpecies by which they are uttered, though brought together from the moft diftant countries on earth. That a dog, which liad never heard another bark, would notwithfanding bark himfelf, and that the barkings or yelps of a Lapland dog would be inftinctively underftood by the dogs of Spain, Calabsia, or any other country, are facts which admit not of doubt : but there is no reafon to imagine that a nan who had never heard any language fpoken would himfelf fpeak; and it is well Enown that the language fooken in one country, is unintelligible to the natives of another country where a different language is fpoken. Herodotus indeed records a fact which, could it be depended upon, would tend to overturn this reafoning, as it infers a natural relation between ideas and certain articulate founds. He tells us, that Pfammetichus king of Egypt, in order to difcover which was the oldeft language, caufed two childsen, newly born of poor parents, to be brought up by a thepherd among his cattle, with a frict injunction that they thould never hear a human voice; and that at the end of tipo years the children pronounced at the fame time the word $\beta$ exros, which in the Phrygian language fignified brad. Either this is one of the many fables which that credulous hiftorian collected among the Egyptians, or the conduct and rcafoning of Plammetichus'were very ablurd; for it is added, that from this circumitance he inferred that the Phrygians were the moit ancient people, and that they fooke the primitive language. The only rational purpofe for which fuch an experiment could be intlituted, would be to difcover, not which is the oldeft or the latelt language, but whether there be fuch a thing as a language of nature or inftinct : but in fuch a language it is obvious that there could be no word to denote bread, becaule in what is called the ftate of nature bread is unknown. The experiment of Pfammetichus was probably never made; but in the woods of different countries folitary favages have at different times been caught, who, though they apparently poffeffed all the fagacity which is natural to man, and though their organs both of hearing and of fpeech were perfect, never ufed articulate founds as figns of fenfations or ideas. They uttered indeed the inarticulate cries which are inftinctively expreflive of pleafure and pain, of joy and forrow, more diftinctly and forcibly than men civilized; but with refpect to the very rudiments of language, they were what Horace reprefents all mankind to have been originally, routum of tarpe pecis. Indeed it feems to be obvious,
that were there any intinetive language, the fitf words Larguag uttered by all children would be tile fame; and that every child, whether born in the defert or in faciety, would underfand the language of every other child, howerer cducated or however neglected. Nay more, we may venture to aftirm, that fuch a language, though its general ufe might, in fociety, be fuperfeded by the prevailing dialect of art, could never be wholly loft; and that no man of one country would find it difficult, far leis impofible, to communicate the knowledge of his natural and moft preffing wants to the men of any other country, whether barbarous or civilized. The exercife of cultivated reafon, and the arts of civil life, have indeed eradicated many of our original inftinets, but they have not eradicated them all: (fee Instinct). There are external indications of the internal feelings and defires, which appear in the moit polifhed fociety, and which are confeffedly inftinctive. The paffions, cmotions, fenfations, and appetites, are naturally exprefled in the countenance by characters which the fa* vage and the courtier can read with equal readinefs. The look ferene, the fmoothed brow, the dimpled fmile, and the gliftening eye, denote equanimity and good will in terms which no man miftakes. The contrated brow, the glaring eye, the fullen gloom, and the threatening air, denote rage, indignation, and defiance, as plainly and forcibly as revilings or imprecations. To teach men to difguife thefe inftinctive indications of their temper, and
"To carry fmiles and funfhine in their face,
"When difcontent fits heavy at their heart,"
conftitutes a great part of modern and refined education. Yet in fpite of every effort of the utmof 1 kill, and of every motive refulting from intereft, the mott confummate hypocrite, or the moft hackneyed politician, is not always able to prevent his real difpofition from becoming apparent in his countenance. He may indced, by long practice, have acquired a very great command both over his temper and over the inftinctive figns of it ; but at times nature will predominate over art, and a fudden and violent paffion will flafh in his face, fo as to be vifible to the eye of every beholder. If thefe oblervations be juft, and we flatter ourfelves with the belief that no man will call them in queltion, it feems to follow, that, if mankind were prompted by inftinct to ufe articulate founds as indications of their paftions, affections, fenfations, and ideas, the language of nature could never be wholly forgotten, and that it would fometimes predominate over the language of art. Groans, fighs, and fome inarticulate lively founds, are naturally expreflive of pain and pleafure, and equally intelligible to all mankind. The occafional ufe of thele no art can wholly banifh; and if there were articulate founds naturally exprefive of the fame feelings, it is not conceivable that art or education could banifh the ufe of them, merely becaule by the organs of the mouth they are broken into parts and refolvable intofyllables.

It being thus evident that there is no inftinctive articulated language, it has become an inquiry of fome importance, how manhind were firf induced to fabricate articulate founds, and to employ them for the purpofe of communicating their thoughts. Children learn to fpeak by infenfible imiation; anc when ad-

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thinks it may have helped to advance its progreis. "I Language. am difpoled (fays he) to believe, that the franing of words with an analogy to the found of the things expreffed by them belongs rather to languages of art than to the firft languages fooken by rude and barbarous nations." It is therefore inarticulate cries only that muft have given rife to the formation of language. Such cries are ufed by all animals who have any ufe of voice to exprefs their wants; and the fact is, that all barbarous nations have cries expreffing different things, fuch as joy, grief, terror, furprife, and the like. Thefe, together with geltures and expreffion of the countenance, were undoubtedly the methods of communication firft ufed by men : and we have but to fuppofe (fays our author) a great number of our fpecies carrying on fome common bufinefs, and converfing together by figns and cries; and we have men juft in a ftate proper for the invention of language. For if we fuppofe their numbers to increafe, their wants would increafe alfo; and then thefe two methods of communication would become too confined for that larger fphere of life which their wants would make neceflary. The only thing then that remained to be done was to give a greater variety to the inftinctive cries; and as the natural progrefs is from what is eafy to what is more difficult, the firf variation would be merely by tones from low to high, and from grave to acute. But this variety could not anfwer all the purpofes of fpeech in fociety; and being advanced fo far, it was natural that an animal fo fagacious as man fhould go on farther, and come at laft to the only other variation remaining, namely, articulation. The firlt articulation would be very fimple, the voice being broken and ditingurihed only by a fers vowels and confonants. And as all natural cries are from the throat and laryns, with little or no operation of the organs of the mouth, it is natural to fuppofe, that the firf languages were for the greater part fooken from the throat; that what confonants were ufed to vary the cries, were mof. ly guttural ; and that the organs of the mouth would at firft be very little employed. From this account of the origin of language it appears, that the firft founds articulated were the natural cries by which men fignified their wants and defires to one another, fuch as calling one another for certain purpofes, and other fuch things as wcre moft neceffary for carrying on any joint work: then in proce?s of time other cries would be articulated, to fignify, that fuch and fuch actions had been performed or were performing, or that fuch and fuch events had happened relative to the cormmon bufinefs. The names would be invented of fuch objects as they were converfant with; but as we cannot fuppofe favages to be deep in abitraction or fhilful in the art of arranging things according to their genera and Jpecies, all things however fimilar, except perhaps the individuals of the loweft fpecies, would be expreffed by different words not relaied to each other either by derivation or compofition. Thus would language grow by degrees; and as it grew, it would be more and more broken and articulated by confonants; but ftill the words would retain a great deal of their original na-

[^9]Lanewage ture of animal cries. And thus things would go on, $\longrightarrow$

7
Argumet ts Thofe ( B ) who think that lanouate was originelly for its di- revealed from heaven, conffler this account of its huwen invention as a feries of mere fuppofitions hanging loofely torether, and the whole fufpended from mo tised principle. The opiniors of Diodorus, Vitruvins, Horace, Lucretins, and Cicero, which are frequentiy fuoted in its fuppont, are in their ellimation of no great:authority than the opinions of other men ; for as language nas formed and brought to a great degree of perfection long before the era of any hiftorian mith whom we are acturinted, the antiquity of the Greek and Koman writers, who are comparatively of yeherday, gives them no advantage in this inquiry over the phifofophers of France and England. Arifotle has defined man to be $\zeta_{\text {coov } \mu \text { unennoxor: }}$ and the definition is certainly fo far juft, that man is much more remarkiable for imitation than invention; and therefore, fay the reafoners on this fide of the quetion, liad the humme race been originally mutunn ot turpe pecus, they womld have continued fo to the end of time, unlefs they had been taught to fpeak by fome fuperior intelligence. That the firt men fprung from the earth like vegetables, no modern philofopher has ventued to effert; nor does there anywhere appear fufficient evidence that men were originally in the thate of favages. The oldef book extant contains the only rational cofmogony lnown to the ancient nations; and that book reprefents the firt human inhabitants of this earth, not only as reafoning and fpeaking animals, but alfo as in a Itate of high perfection and happinefs, of which they were deprived for difobedience to their Creator. Mofes, fetting afide his claim to infpiration, deferves, from the confitence of his narrative, at leaft as much credit as Mofchus, or Iemocritus, or Epicurus; and from his prior antiquity, if antiquity could on this fubject have any weiglit, he would deferve more, as having lived nearer to the period of which they all write. But the queftion refpecting the origin of language may be decided without refing in authority of any kind, merely by confidering the nature of fpeech and the mental and corporeal powers of man. Thofe who maintain it to be of human invention, fuppofe men at frft to have been folitary animals, afterwards to have herded together without government or fubordination, then to have formed political focieties, and by their own exertions to have advanced from the grofef ignorance to the refnements of fcience. But, fay the reafoners whofe caufe we are nors pleading, this is a fuppofition contrary to all hintory and all experience. There is not upon record a lingle inftance well authenticated of a people emerging by their own efforts from barbarifm to civilization. There have indeed been many nations raifed from the fate of favages; but it is known that they were polibied, not by their own repeated exertions, but by the influence of individuals or colonies
from nations rocre enlifhtence than themfelves. Tise Langual original favace of Greece were tamed ly the Pelafgi, a foreign tribe; and uere afterwards fumher polither! by Onpheus, Cecrops, Cadmus, \&ic. who derived their knonsedge fromi Romans, a ferccious and motley crew, received the bhe lings of law and religion from a fucection of faresinn kindes; and the conguelts of liome at a later perind contrituted to civilize the rell of Earope. In America. the coly two mations whith at the invalim of the Spani ids coold be faid to hare adranced a fionfe flep from barb:rif:n, were indebted for their fuperiority over the other tribes, not to the gradual and unalfitted progrefs of the human mind, but to the wife inftitations of foreign legiflators.
'This is not the proper place for tracing the progrefs of man from the favage fate to that of pulitical fociety (fee Sabage State); but experience teaches us that in every art it is much eafier to improve than to invent. The human mind, when put into the proper trach, is indeed capable of making great adrances in arts and feiences; but if any credit be due to the records of hiffory, it has not, in a people funk in innorance and barbarity, fufficient visour to difoover that irach, or to conceive a ftate different from the prefent. If the sudeit inhabitants of America and other countics hass continued, as there is evely reafon to believe they hawe continued, for ages in the fame unvaried thate of basbarifm ; how is it imaginable that people fo much ruder than they, as to be ignorant of all lancuage, thould think of inventing an art fo dificult as that of feech, or even to frame a conception of the thing? In buil. ing, fihing, hunting, mavigsting, \&ic. they might imitate the inflinctive arts of other animals, the there is no other animal that expreffes its fenlations and affections by arbitrary articulate founds. - It is faid that before language could be invented, mankind mult have exifted for ages in large political focieties, and have carried on in concert fome common work; but if inarticulate cries, and the natural vifible figns of the paftions and affections, were modes of communication fufficiently accurate to keep a large fociety together for ages, and to direct its members in the execution of fome common work, what could be their inducement to the invention of an art fo ufeful and difficult as that of language ? Let us however fuppofe, fay the advocates for the caufe which we are now fupporting, that different rations of \{avages fet about inventing an art of communicating their thoughts, which experience had taught them was not abfolutely neceflary; how came they all, without exception, to think of the one art of articulating the voice for this purpofe? Inarticulate cries, out of which language is fabricated, have indeed an infinctive connexion with our paffions and affections; but there are geltures and expreffions of countenance with which our paffions and affections are, in the fame manner connected. If the natural cries of paffion could be fo modified and enlarged as to be capable of communicating to the hearer every idea in the mind of the fpeaker, it is certain that the natural geftures could be fo modified as to anfwer the that among the feveral nations who invented languages, no: one fhould have fumbled upon fabricating vifible figns of their ideas, but that all thould have agreed to denote then by articulated lomens. Every nation whofe language is narrow and rude fupplies its defects by a violent gefticulation; and therefore, as much lefs genius is excrted in the improvement of any art than was requinite for its frit invention, it is natural to fuppofe, that, had men been left to devife for themfelves a methed of communicating their thoughts, they rould not have attempted any other than that by which they now improve the language tranfmited by their futhers. It is vain to urge that articulate founds are fitter for the purpofe of communicating thought tha: vifille gefliculation ; for thoug'? this may be true, it is a truth which could bardly occur to favages, who liad never experienced the fitnefs of either; and if, to counterbalance the fuperior fitrefs of articulation, its estreme difficulty be taken into view, it muf appear little lefs than miraculous that every favage tribe fhould think of it rather than the eafier mothod of artilicial gefliculation. Savages, it is well known, are remarkable for their indolence, and for always preferring eafe to utility; but their modes of life give fluch pliancy in their bodies, that they could with very little trouble bend their limats and members into any pofitions agreed upou as the figns of idcas. This is fo far from being the cafe with refpes to the organs of articulation, that it is with extreme difficulty, if at all, that a man adtanced in life can be taught to articulate any found Which be has nei been accuftomed to hear. No foreigner who comes to England after the age of thirty crer pronounces the language tolerably weli; an Engtifman of that age can hardly be taiught to utter the :uttural found which a Scotcinnan gives to the Greek $x$, or even the French found of the vowel $u$; and of the lolitary favages who have been caught in diffrent forells, we know not that there has been one who, atiter the age of manhood, learned to articulate any language fo as to make himfelf readily undertood. The prefeut age has indeed furnihed many inflances of deaf perfons being taught to fueak intelligibly by fillfuk mafters mouiding the organs of the mouth into the peftions proper for articulating the voice; but who was to rerform this tafk among the inventors of language, when all mankind were equally ignorant of the means by which articulation is effeged? In a word, daily expericuce informs us, that mon who have not learned to articulate in their childhood, never afterwards acguire the faculty of fpeech but by fuch helps as farages cannot obtain; and therefore, if feecch was invented at all, it muft have, been either by children who were incapable of invention, or by meri who were incapable of fpecch. A thoufand, nay a million, of children could not think of inventing a language. While the organs are pliable, there is not underftanding enough to frame the conception of a language; and by the time that there is underfanding, the organs are lecome too filff for the-tafh, and therefore, fay the advocates for the divinc origin of language, reafon as well as hifory intimates, that mankind in all ages muft have been fpeaking animals; the young having conflantly acquired this art by imitating thofe who were
elder ; and we may warrantably concludc, that our firn Langusge. parents receised it by immediate intpiration.

To this account of the orimin of language an objectiun readily offers itfelf. If the firt language was communicated by infpiration, it mull have bech perfeet, and held in reverence by thofe who fake it, i. e. by all mankind. But a valt variety of languages have prevailed in the world; and fome of thefe which remain are known to be very imperfect, whilit there is reafon to believe that many others arc loft. If difierent languages were originally invented by difierent nations, all this would natural!y follow from the mixture of thefe nations; but what could induce me:n polfefled of one perfect language of divine original, to forfake it for barbarous jargons of their own invention, and in every refpect inferior to that with which their forefathers or themfelves had been inlpired ?

In anfwer to this objection, it is faid, that nothing In what ciro was given by infpiration but the faculty of fpeech and cumnances the elements of lánguage; for when once men had the moft language, it is eafy to conceive how they might have pertect and modined it by their natural powers, as thoufands can guage muft improve what they could not invent. The firlt land become guage, if given by iufpiration, muft in its principles n row and have had all the perfeation of which language is lif fuse. ceptible; but from the nature of things it could nut poffibly be very copious. The words of language are either proper names or the figns of ideas and relations; but it cannot be fuppofed that the All-wife Inllructor would load the menuries of men with words to denote things the: unknown, or with the figns of ideas which they had not then acquired. It was fuficient that a foundation was laid of fuch a nature as would fupport the largelt fuperllmuture which they might cver after have occafion to raife upon it, and that they were taught the method of building by compofition and derivation. This would lang preferve the language radically the fame, though it could nut prevent the introluction of different diale $\Omega s$ in the different countries over which men fpread themfelves. In whatever region we fuppofe the human race to have been originally placed, the increafe of their numbers would in procels of tinae either difperte them into different nations, or extend the one nation to a valt diffance on all fides from what we may call the feat of government. In either cafe they would everywhere mest with new objects, which would occafion the in:ention of new names; and as the difference of climate and other natural caufes would compel thofe who removed eaftward or northward to adopt modes of life i: many: refpects cifferent from the modes of thofe who travelled towards the welt or the fouth, a val number of word, would in one country be fabricated to denote complex conceptions, which muft neceflarily be unintelligible to the lody of the people inhabiting countics where thofe conceptions had never been formed. Thus wou'd various dialects be unavoidably introduced into the original language, even wiflt ill mankind remained in one fociety and under one govermment. But aties feparate and independent focieties were formed, thefe variations would become more numcrous, and the feveral dialects would deviate father and farther from each other, as well as from the idiom and geniur of the parent tongue, in proportion to the diftance of

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Xanouage the tribes by whom they were fpoken. If we fuppofe $\underbrace{}_{2}$ few people either to have been banilhed together from the fociety of thair brethren, or to liave wandered of their own accord to a diffance, from whicb through tracklefs forelis they could not return (and fuch emigrations have often taken place), it is eafy to fee how the molt copious language mut in their mouths have foon become narrow, and how the offspring of infiriration mult have in time become fo deformed as hardly to retain a feature of the anceftor whence it originally fprung. Men do not long retain a prafical kill in thofe arts which they never exercife; and there are abundance of facts to prove, that a fingle man caft upon a defert inland, and having to provide the neceffaries of life by his own ingenuity, would foon lofe the art of Cpeaking with fluency his motber tongue. A fmall number of men calt away rogether, would indeed retain that art Comewhat longer; but in a fpace of time not very long, it would in a great mafare be loft by them or their pofterity. In this fate of banifhment, as their time would be almoft wholly occupied in hunting, filhing, and other means within their reach to fupport a wretched exiftence, they would have very little leifure, and perhaps lefs defire, to preferve by converlation the remembrance of that cale and thofe comforts of which they now found themlelves for ever deprived; and they would of courfe foon forget all the words which in their native language had been ufed to denote the accommodations and elegancies of polighed life. This at leaft feems to be certain, that they would not attempt to teach their children a part of language which in their circumitances could be of no ufe to them, and of which it would be impoffible to make them comprehend the meaning; for where there are no ideas, the figns of ideas cannot be made intelligible. From fuch colonies as this difperfed over the earth, it is probable that all thofe nations of favages have arifen, which have induced fo many philofopbers to imagine that the flate of the favage was the original flate of $\operatorname{man}$; and if fo, we fee that from the language of infpiration mult have unavoidably fprung a number of different diale ss all extremely rude and narrow, and retaining nothing of the parent tongue, except perhaps the names of the moft confpicuous objects of nature, and of thofe wants and enjoyments which are infeparable from humanity. The favage ftate has no artificial wants, and furnithes few ideas that reguire terms to exprefs them. The labits of folitude and filence in-
cline a favage rarely to feeak; and when he fpeaks, Langung he ufes the fame terins to denote diferent ideas. speech therefore, $i$ in this rude condition of men, mult ve extremely barrow and extremely various. Every new region, and every new climate, fuggeits diferent ideas and creates different wants, which muft $b$ expreffed either by terms entirely new or by old terms ufed with a new fignification. Hence mult originate great Hence tb diverfity, even in the firf elements of lpeech, among rariet; o all favage nations, the words retained of the original whith ha language being ufed in various fenfes, and pronounced, pre: aived as we may believe, with various accents. When any the worls of thole favage tribes emerged from their barbarifm, whetber by their own efforts or by the aid of people more enlightened than themielves, it is obvious that the improvement and copioufnefs of their language would keep pace with their own progrefs in knowledge and in the arts of civil life; but in the infinite multitude of words which civilization and refinement add to language, it would be little lefs $t$ an miraculous were any tivo nations to agree upon the fame founds to reprefent the fame ideas. Superior refinement, indeed, may induce imitation, conquefts may impole a language, and extenfion of empires may melt down dif. ferent nations and different dialects into one mafs; but independent tribes naturally give rife to diverfity of tongues, nor does it feem polfible that they fhould retain more of the original lansuage than the words expreflive of thofe objects with which all men are at all times equally concerned.

The variety of tongues, therefore, the copioufnefs of fome, and the narrownefs of others, furnith no good objection to the divine origin of language in general; for whether language was at firf revealed from heaven, or in a courle of ages invented by men, a multitude of dialects would inevitably arife as foon as the human race was feparated into a number of diftinet and independent nations.-We pretend not to decide for our readers in a quctlion of this nature: we have given the bell arguments on both fides which we could either devife or find in the writings of others: and if it be feen, as we doubt not it will, that our own judgement leans to the fide of revelation, let it not be hattily condemned hy thofe whofe knouledge of languages exiends no farther than to Greece and Rome, and France and England; for if they will carry their philological inquiries to the eaft, they may perhaps be alide to trace the remains of one original language through a great part of the globe at this day (c).

Language,
(c) Numberlefs inflances of this might te given, but our limits will permit us to produce only a very fewIn the Shanferit, or ancient language of the Centoos, our fignifies a day: (Sce Halhed's prefuce to she code of Gentoo lawr). In other fafterm languages, the fame word was ufed to denote botl. lighe and fire. Thus in the Chaldee, ur is fire; in the Egyptian, or is the fun or light, (Phut de Ofir. et Ifid.): In the Hebreu, AUR is light: in the Greck, arg is the air, often light: in Latin, AURA is the air, fiom the Eolic Greek; and in Irijh it is Aear. From the very fame original we have the Greek word aug, and the Envlith fire. - In Hebrew, or fignifies to raife, lifi up one's felf, or be raifed: hence plainly are derived the Greek ogw, to raife, excite, and the Latin orior to arife; whence oriens the eaf, and Eng. orient, oricnint; allo Lat. orito, and Eng. origin, originate, \&c.-The word Khunt in the Shanferit dialect, lignifes a fmall territory, which is retained in Kendes, Kent, Cantor, Cantabria. The word Khan, kin, cean, gan, gen, gint, is of the fame kind, and pervades Afia and Europe from the Ganges to the Garonne. The word light Englifh, luchr Flemin, lux Roman, and $\lambda v y$ gos Greek, has feen traced to Egydt. Aretz. Arek, f.rech, hertia, eirti, and forde, are all one word from Palefine and Chaldea to Britain and Germany.-Whe Chaldeans turned the

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Language, whatever was its origin, muft be fubject to perpetual changes from its very nature, as well as from that variety of incidents which affect ail fublunary things; and thofe changes muft always correfpond with the change of circumfances in the people by whom the lanquage is fpoken. When any particular fet of iueas becomes prevalent among any fociety of men, words mult be adupted to exprefs them; and from thefe the language muft allume jts character. Hence the language of a brave and martial people is bold and nervous, aihongh perhafs rude and uncultivated; while the language of thofe nations in which luxury and effeminacy prevail, are flowing and harmonious, but devoid of force and energy of expreffion.

But although it may be confidered as a general rule, that the language of any people is a very exact index of the fate of their minds, yet it admits of fome particular exceptions. For as man is naturally an initative animal, and in matters of this hind never has recourfe to invention but through necelfity, colonies planted by any nation, at whatever diftance from the mother country, always retain the farne general founds and iaw of language with thofe from whom they are leparated. In procels of time, however, the colonifts and the peopic of the mother country, by living under different climates, by being engaged in different occupations, and by acopting, of courle, different modes of life, may lofe ali knowledge of one another, affume dififerent national charatters, and form each a difinina language to themfelves, totally different in genius and Ayle, though agreeing with one another in the fundamental Founds and general idiom. If, therefore, this particular idion, formed before their feparation, happen to be more peculiarly adapted to the genius of the roother country than of the colonies, thefe will labour under at inconvenience on this account, which they may never be wholly able to overcome; and this inconvenience muft prevent theis language from ever attaining to that degree of perfection to which, by the genius of the people, it might otherwife have been carried. Thus various languages may have been formed out of one parent tongue ; and thus that happy concurrence of circumfances which has raifed tome languages to a high degree of perfection, may be cafily accounted for, while many ineffectual efforts have been made to raife other languages to the fame degree of excellence.
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As the knorleche of 1 -nguages confitutes a great Langunge part of erudition, as their beanty and deformities furnih employment to taile, and as thefe depend much upon the idioms of the dificient tongues, we thall pro. ceed to make a few remark- y $[$ oa the advartages and defects of fome of thole idioms of languaye with ulaich we are bef acquaimed. - As the wirds fimoy and ciro- ${ }^{1 t}$ Nus of a language are often confounded, it will be twat is neceflary to inform the reader, that by moas we the idim, would here be underitood to mean that general mode of and shat arrang ing surds into feuterces which prevails in amy par- by the gedicular langugee; and by the cemius of a language, we nius, of 3 mean to exprefs the partichlar fet of ideas ubhich the language. words of any language, either from their formation or muliplicity, are moft naturally apt to excive in the mind of amy one whio hears it propserly uttered. Thus, although the Englifb, French, Italian, and Spani,/ languages nearly agree in the fame general intom, yet the particular Gexius of each is remarkably different: The Englifb is naturally bold, nervous, and :lrongly articclated; the French is weaker, and more fowing; the Italian more foothing and harmonious; and the Spanifb more grave, fonorous, and flately. Now, when Two idiwe examine the feveral languages which have been ome ameng moft efteemed in Europe, we find that there are on- gue tazes ly two idtoms among them which are elfentially di-etrecened in ftinguifhed from one another; and all thofe lan-Europe. guages are divided between thefe two idioms, follo :wing fometimes the one and fometimes the other, either wholly or in part, The languages which may be fari to adhere to the firl idiom, are thofe which in their confiruction follors the order of nature; that j , exprefs their ideas in the natural order in which they occur to the mind ; the fubject which occafions the action appearing firl ; then the action acreapanied with its feveral modifications; and, laft of $\Sigma^{\circ}$, Leo objeet to which it has reference.-Thefe may prup riy be called 13 ANalocous languages; and of this kind are the Eng. logous and lith, French, and moft of the modern languages in Europe. - The languages which may be referred to the other idmos, are thofe which follow no other order in their conftruction than what the talle or fancy of the compofer may fuggeft; fumetimes making the abject, fometimes the action, and fomerimes the modification of the action, to precede or follow the other parts. The confufion which this might occafion, is avoided by the particular manner of infecling their words, by which

Hebrew word SHUR or shor, which fignifies an ox, into Thor, as likewife did the Phenicians (See Plut. Vit. Syll.); hence the Greek ravgos, the I.atin tourus, the French tourean, and the Italian and Spanith toro. The Hebrew word eit or beith, which fignifies cavity, capaciyy, the concave or infide of any place, has fpread itfelf far and wide, fill retaining nearly the original fignification; in the Perfian language it is BAD, BED, BHAD, and fignifies a houfe or abode. In all the dialects of the Gothic tongue, rode figaifies the fame thing: hence the Engliih abide, abode, boorh, boat, and the French batteau. In all thefe inflances there is a friking refemblance in Cound as well as in fenfe between the derived and the primitive words; but this is not always the cafe, even when of the legitimacy of the derivation no doubt can be entertained. It has been thown (fee Bofwell's Life of Yolnfon), that the French Jour, a day, is derived from the Latin DIEs; but it may be certainly traced from a higher fource. In many of the oriental dialects, $\mathbf{v i}$, bright, is a nante of the fun; hence :he Greek $\Delta \cdot s$, Gupiter, and the Latin Diss, a day. From du:s comes durwus; in the pronunciation of which, either by the inaccuracy of the 货eaker or of the hearer, dit is readily confounded with giur ; then of the ablative of this adjective, corruptly pronvanced giurn, the Italians make a fubflantive ginrsio, which by the Frelich is readily contracted into glour or Jour. From the fame root di, comes Alos, $\propto, \cdots$, the Folic $\Delta \mathrm{F} \circ \mathrm{s}$, the Latin divus, and the Celtic dhas, Gud.

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$\underbrace{\text { langug }}$ ghey are made to refer to the others with which they cught to be connected, in whatever part of the fentence they occur, the mind being left at liberty to connect

14 the tranepofitive fan guages compared with refyeet to
the feveral parts with one another after the whole fentence is concluded. And as the woros may be here tranfpofed at pleafure, thofe languages may be called transrositive languages. To this clafs we mult, in an efpecial manner, refer the Lain and Grece languages. - As each of thefe IDions has feveral advantages and defects peculiar to itfelf, we fhall endeavour to point out the moft confiderable of then, in order to afcertain with greater precifion the particular character and excellence of fome of thofe languages now principally fpoken or Audied in Europe.

The partiality which our forefathers, at the revival of letters in Europe, naturally entertained for the Greek and Roman languages, made them look upon every diftinguifling peculiarity belonging to them as one of the manycaufes of the amazing fuperiority which thofe languages evidently enjoyed above every other at that time fpoken in Europe.-This blind deference fill continues to be paid to them, as our minds are early prepofiefled with thefe ideas, and as we are taught in our earlieft infancy to believe, that to entertain the leaf idea of our own language being equal to the Greek or Latin in any particular whatever, would be a certain mark of ignorance or want of tafte.-Their rights, therefore, like thofe of the church in former ages, re. main fill to be examined; and we, without exerting our reafon to difcover truth from faliehood, tamely fit down fatisfied with the idea of their undoubted preeminence in every refpect. But if we look around us for a moment, and ooferve the many excellent productions which are to be met with in almoft every language of Europe, we muft be fatistied, that even thefe are now poffeffed of fome powers which might afford at leaft a prefumption, that, if they were cultivated with a proper degree of attention, they might, in fome re/pects, be made to rival, if not to excel, thofe beautiful and juftly adnired remains of antiquity. Without endeavouring so derogate from their merit, let us, with the cool eye of philofophic reafoning, endeavour to bring before the facred tribunal of Truth fome of thofe opinions which have been moft generally received upon this fubject, and reft the determination of the caufe on her impartia? decifion.

The learned rcader well knors, that the feveral changes which take place in the arrangement of the words in cuery transpositive language, could not be admitted without occafioning great confufion, unlefs certain claffes of words were endowed with particular variations, by means of which they might be made to refer to the other words with which they ought naturally to be connected. From this caufe proceeds the neceifity of feveral variations of verbs, nouns, and adjectives; which are not in the leaft effential or neceflary in the Analogous languages, as we have pretty fully explained under the article Grammar, to which we refer for fatisfation on this head. We fhall in this place confider, whether thefe variations are an advantage or a difadvantage to langunge.

As it is generally fuppofed, that every language whofe verbs admit of inflection, is on that acconnt much more perfect than one where they are varied by auxiliaries; we thall in the fifl place, examine this with
fome degree of attention; and that what is faid on this Languz head may be the more intelligible, we thall give examples from the Latin and Englin languages. We make choice of thefe languages, becaufe the Latin is more purely tranfoffitive than the Greek, and the Englith admits of lefs infteciion than any other language that we are acquainted with.

If any preference be due to a language from the Diverfit one or the other method of conjugating verbs, it muft founds, in a great mealure be owing to one or more of thefe preffions three caufes:-Either it muf admit of a greater va-and prec riety of founds, and confequently more room for har-fion of monious diverfity of toncs in the language:-or a meamrg greater freedom of exprelfion is allowed in uttering any fimple idea, by the one admitting of a greater variety in the arrangement of the words which are neceffary to exprefs that idea than the other does:-or, latlly, a greater precifion and accuracy in fixing the méaning of the perfon who ufes the language, arife from the ufe of one of thefe forms, than from the ufe of the other: for, as every other circumftance which may ferve to give a diverfity to language, fuch as the general and moft prevalent founds, the frequent repetition of any one particular letter, and a variety of oher circuniflances of that nature, which may ferve to debafe a particular language, are not intuenced in the leatt by the different methods of varying the verbs, they cannot be here confidered. We fhall therefore proceed to make a comparifon of the advantages or difad. vantages which may accrue to a language by intlecting its verbs with regard to each of thefe particulars, - va. riety of found, variety of arrangement, and accuracy of meaning.

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The firf? particular that we have to examine is, Diverfity Whether the one method of exprefling the variations founds. of a verb admits of a greater variety of founds? In this refpect the Latin feems, at firft view, to have a great advantage over the Englif: for the words amo, amabam, amaveram, amavero, amem, \&c. feem to be more different from one another than the Englith tranflations of thefe, I love, I did love, I had loved, I fball have loved, I may love, \&c.; for although the fyllable. AM is repeated in every one of the firt, yet as the latt fyllable ufually frikes the ear with greater force and leaves a greater impreffion than the firf, it is very probable that many will think the frequent repetition of the word love in the laft inflance, more friking to the ear than the repetition of $a m$ in the former. We will therefore allow this its full weight, and grant that there is as great, or even a greater difference between the founds of the different terfes of a Latin verb, than there is between the words that are equivalent to them in Englifh. But as we here confider the variety of founds of the language in general, before any juit concluition can be drawn, we mult not only compare the different parts of the lame verb, but alfo compare the different verbs with one another in each of thefe languages. And here, at firlt view, we perceive a mof striking diftinction in favour of the analogous language over the inflected: for as it would be impoffible to form a particular let of inflections different from one another for each particular verb, all thofe langunges which have adopted this method have been obliged to reduce their verbs into a fmall number of. clafles; all the words of each of which clafes commonly

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inguage monly called conjugations, have the feveral variations of fame manner, which muft of neceflity introduce a fimilarity of founds into the language in general, much greater than where every particular verb always retains its own diftinguilhing found. To be convinced of this, we need only repeat any number of verbs in Latin and Englifh, and obferve on which fide the preference with refpect to variety of founds mult fall.

| Pono, | I pu:. | Moveo, | I move. |
| :---: | :---: | :---: | :---: |
| Dono, | 1 give. | Doleo, | 1 ail. |
| Cano, | 1 fing. | Lugeo, | $I$ mourn. |
| Sono, | $I$ found. | Obeo. | $I$ die. |
| Orno, | $I$ adorn. | Gaudeo, | $I$ rejoice. |
| Pugno, | Ifogh: | Incipio, | $I$ begin. |
| Lego, | $I$ read. | Facio, | $I$ make. |
| Scribo, | $I$ urite. | Fodio, | $I$ dig. |
| Puto, | $I$ think. | Rideo, | I laugh. |
| Vivo, | I live. | Impleo, | I fill. |
| Ambulo | 1 walk. | Abftineo, | Iforbear. |

The fimilarity of founds is here fo obvious in the Latin, as to be perceived at the firft glance; nor can we be furprifed to find it fo, when we confider that all their regular verbs, amounting to 4000 or upwards, mult be reduced to four conjugations, and even thefe differing but little from one another, which muft of neceffity produce the famenefs of founds which we here perceive; whereas, every language that follow the natural order, like the Englifh, inftead of this fmall number of uniform terminations have almoft as many diftinct founds as original verbs in their language.

But if inftead of the prefent of the indicative mood, we fhould take almoft any other tenfe of the Latin verb, the fimilarity of founds would be fill more perceptible, as many of thefe tenfes have the fame termination in all the four conjugations, particularly in the imperfect of the indicative, as below.

| Pone-bam; | $I$ did put, | $I$ put. |
| :--- | :--- | :--- |
| Dona-bam; | $I$ did give, | $I$ gave. |
| Cane-bam; | $I$ did fing, | $I$ fung. |
| Sona-bam; | $I$ did found, | $I$ founded. |
| Oma-bam; | $I$ did adorn, | $I$ adorned. |
| Pugna-bam; | $I$ did fght, | $I$ fought. |
| Lege-bam; | $I$ did read, | $I$ rad. |
| Scribe-bam; | $I$ did urite, | $I$ wrote. |
| Puta-bam; | $I$ did think, | $I$ thought. |
| Vive-bam; | $I$ did live, | $I$ livad. |


| Ambula ham; | $I$ did walk, | 1 walked. | Ha'̧* |
| :---: | :---: | :---: | :---: |
| Move-bam; | $I$ did move, | 1 moved. |  |
| Dole-bant ; | 1 disl ail, | 1 aind. |  |
| Luge-bam; | $I$ did mourn, | $I$ mourncd. |  |
| Obi-bam ; | $I$ did die, | 1 died. |  |
| Gaude-bam ; | $I$ did rejoice, | $I$ rejoiced. |  |
| Incipie-bam | $I$ did begin, | $I$ began. |  |
| Facie-bam; | $I$ did make, | $I$ made. |  |
| Fudie-bam; | $I$ did dig, | I dug. |  |
| Ride-bam; | $I$ died laugh, | 1 lauphed. |  |
| Imple-bam; | I did fill, | $I$ filled. |  |
| Abltine-bam; | I did forbear | 1 forborc. |  |

It is unneceffary to make any remarks on the Latin words in this example : but in the Englill tranflation we have carefully marked in the firft column the words without any inflection; and in the fecond, have put down the fame meaning by an inflection of our verb; which we have been enabled to do, from a peculiar excellency in our own language unh nown to any other either ancient or modern. Were it neceffary to purfue this fubject farther, we might obferve, that the perfect tenfe in all the conjugations ends univerfally in 1, the pluperfect in ERAM, and the future, in AM or BO ; in the fubjunctive mood, the imperfect univerfally in rem, the perfect in Erim, the pluperfect in ISsem, and the future in ERO: and as a ftill greater famenefs is obfervable in the different variations for the perfons in thefe tenfes, feeing the firlt perfon plural in all tenfes ends in mus, and the fecond perfon in tis, with little variation in the other perfons; it is evident that, in refpect to diverfity of founds, this method of conjugating verbs by inflexion, is greatly inferior to the more natural method of exprefling the various connexions and relations of the verbal attributive by different words, ufually called auxiliaries.

The fecond particular, by which the different me-variety of thods of marking the relation of the verbal attributive exprefhons. can affect language, arifes from the variety of expreffions which either of thefe may admit of in uttering the fame fentiment. In this refpect, likewife, the method of conjugation by inflection feems to be deficient. Thus the prefent of the indicative mood in Latin can at moft be expreffed only in two ways, viz. SCRibo and ego scribo; which ought perhaps in Atrictnefs to be admitted only as one : whereas, in Englilh, we can vary it in four different ways, viz. $1 /$, 'I write ; $2 d / y$, I do write; $3^{d} / y$, Write I do; $4^{\text {d }} / \mathrm{l} y$, Write do I (D). And if we confider the further variation which thefe receive in power as well as in found, by having $3 \mathrm{U}_{2}$
the
(D) We are fufficiently aware, that the laft variation cannot in ftrictnefs be confidered as good language; although many examples of this manner of ufing it in ferious compofition, both in poetry and profe, might be eafily produced from the beft authors in the Englifh language.- But however unjullifiable it may be to ufe it in fericus compofition; yet, when judicioufly employed in works of humour, this and other forced expreffions of the like nature produce a fine effect, by giving a burlefque air to the language, and beautifully contrafling it to the purer diction of folid reafoning. The fagacious Shakefpeare, has, on many occafions, thowed how fuccefffully thefe may be employed in compofition, particularly in drawing the character of ancien: Piflol in Henry V. Without this liberty, Butler would hare found greater dilficulty in drawing the inimitable character of Hudibras.-Let this apology fuffice for having inferted this and other variations of the fame kind; which, although they may be often improper for ferious compofition, have fill their ufe in language.

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Language. the emphafis placed on the different words; inftead of four, we will find eleven different variations: thus, $1 / f$, I surite, with the emphafis upon the $I ;-2 d / y$, I write, with the emphalis upon the word write. Let any one pronounce thefe with the different emphalis neceffary, and he will be irmmediately fatisfied that they are not only diftinct from each other with relpec to meaning, but alfo with regard to found; and the fame muft be underftood of all the other parts of this example.

| 3. I do surite. | 8. Write I Do. |
| :---: | :---: |
| 4. I do zurite. | 9. Wrısk do $I$. |
| 5. I do rikite. | 10. Write do I. |
| 6. Wु:19 I do. | 11. Wrise do I. |
| 7. Write I do. |  |

None of the Latin tenfes admit of more variations than the two above mentioned: nor do almoft any of the Enclith admit of fewer than in the above example; and feveral of thefe phrafes, which mult be confidered as exaet tranflations of fome of the tenfes of the Latin verb, admit of many more. Thus the inperfert of the fubjanctive mood, which in Latin admits of the above two variations, admits in Englifh of the following :

1. I might have written.
2. Written I might have.
3. Written might have I.
4. I written might have.
5. Have written I might.

And if we likewife confider the variations which may be produced by a variation of the emphafis, they will be as under:

1. I might have written. 13. WritaEN might have I.
2. I might have quritten. 14. Written might have $I$.
3. I might hafe written. 15. Written might hafe $I$.
4. I might have שRITTEN. 16. Written might have I.
5. Wrigten I might have.17. I quritten might have.
6. Writien I might have. 18. I aritaen might have.
7. Irritien I might have. 19. I uritten migat have.
8. Hritten I might have. 20. I written might hafe.
9. Have written I might. 2 t. Have written might $I$.
10. Have writqen I might 22. Have mritqen might $I$. 11. Have written I might. 23. Have written mıGнq I. 12. Have written I mgat. 24. Have written might I.

In all $2 \nmid$ variations, inftead of two. If we likewife confider, that the Latins were obliged to employ the fame word, not only to exprefs "I might have written, but allo, "I could, I would, or I fould have written;" each of which would admit of the fame variations as the word might; we have in all ninety: $f 1 x$ different expreffions in Englifh for the fame phate which in Latin admits only of tiro, unlefs they have recourfe to other forced turns of expreffion, which the defects of their werbs in this particular has compelled them to inpent.

But if it fhould be objected, that the laft circumfance we have taken notice of as a defect, can only be confidered as a defect of the Latin language, and is not to be attributed to the inflection of their verbs, feeing they might have had a particular tenfe for each of thefe different words might, could, would, and fivould; we anfwer, tbat, even admitting this excufe as valid; the fuperiority of the analogous language, as fuch,
ftill remains in this refpeet as 12 to 1 .-Yet even this Langua conceffion is greater than ought to have been made: For as the difficulty of forming a fufficient variety of words for all the different modifications which a verb may be made to undergo is too great for any rude people to overcome; we find, that every mation which has adopted this mode of inttection, not excepting the Greeks themfelves, has been obliged to remain fatisfied with fewer words than would have been necelfary, even to effect this purpofe, and make the fame word ferve a double, treble, or even quadruple office, as in the Latin tenfe which gave rife to thefe obfervations; So that, however in phyfical neceffity, this may not be chargeable upon the particular mode of contiruc. tion, yet in moral certainty it muft always be the cafe; and therefore we may fafely conclude, that the mode of varying verbs by inflection affords lefs variety in the arrangement of the words of the particular phrafes, than the method of varying them by the help of ausiliaries.

But if there fhould ftill remain any fhadow of doubt in the mind of the reader, whether the method of varying the verbs by infection is inferior to that by auxi-Precifion liaries, with regard to diverity of founds, or variety meaning, of exprefion ; there cannot be the leaft doubt, but in which that with refpect to precifion, dillinetnefs, and accu-is fuperrot racy, in expreffing any idea, the latter enjoys a fupe- to the La riority beyond all comparifon.- Thus the Latin verbtinlanAmo, may be Englilhed either by the words, I love, guage. or I do love, and the emphatis placed upon any of the words that the circumflances may require ; by means of which, the meaning is pointed out with a force and energy which it is altogether impoffible to produce by the ufe of any fingle word. The following line from Shakefpeare's Othello may ferve as an example :

## Excellent wretch !

Perdition catch my foul, but $I$ Do love thee :
In which the ftrong emphafis upon the word Do, gives it a force and energy which conveys, in an irrefiftible manner, a moft perfect knowledge of the lituation of the mind of the fpeaker at the time.-That the whole energy of the expreflion depends upon this feemingly infignificant word, we may be at onc fatisfied of, by keeping it away in this manner :

## Excellent wretch

Perdition catch my foul, but $I$ love thee.
How poor-how tame-how infignificant is this, wher compared with the other! Here nothing remains but a tame aflertion, ufhered in with a pompous exclamation which could not here be introduced with any degree of propriety. Whereas, in the way that Slakefpeare has left it to us, it has an energy which nothing can furpafs; for, overpowered with the irreliftible force of Defdemona's charms, this ftrong exclamation is extorted from the foul of Othello in fpite of himfelf. Surprifed at this tender emotion, which brings to his mind all thofe amiable qualities for which he had fo much efteemed her, and at the fame time fully impreffed with the firm perfuafion of her guilt, he burfts out into that feemingly inconfiflent exclamation, Excellent wretch! and then he adds in the warmth of his furprife,-thinking it a thing moft aftoniming, that any warmth of affection floould fill remain in his

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nguage breaft, he even confirms it with an oath, $\rightarrow$ Perdition caich my foul, b:tt I Do love thee.-" In fpite of all the fallehoods with which I know thou halt deceived me -in Spite of all the crimes of which I know thee guilty-in fpite of all thofe reafons for which I ought to hate thee-in fite of myfelf,--itill I find that I love-yes, I Do love thee." We look upon it as a thing altogether impofible to transfufe the energy of this expreflion into any language whofe verbs are regularly inflected.

In the fame manner we might go through all the other tenfes, and fhow that the fame fuperiority is to be lound in each. Thus, in the perfect terfe of the latins, intead of the fimple anavi, we fay, I have LOVED; and by the liberty we have of putting the emphatis upon any of the words which compofe this phrafe, we can in the moft accurate manner fix the precife idea which we mean to excite; for if we fay, I hawe loved, with the emphalis upon the word $I$, it at once points out the perfon as the principal object in that phrafe, and makes us naturally look for a contraft in fome other perfon, and the other parts of the phrale become fubordinate to it ;-" HE has loved thee much, but I have loved thee infinitely more." The Latins too, as they were not prohibited from joining the pronoun with their verb, were alfo acquainted with this excellence, which Virgil has beautifully ufed in this verfe :

## Nos patriam fugimus; <br> Tv, Tityre, lentus in umbra, \& c .

But we are not only enabled thus to diftinguith the perfon in as powerful a manner as the Latins, but can alfo with the fame facility point out any of the other circumbltances as principals; for if we fay, with the emphafis upon the word have, "I have loved," it as naturally points out the time as the principal abject, and nakes us to look for a contralt in that peculiarity, I HAVE: "I have lored indeed;-my imagination has been led altray-my reafon has been perverted;-but, $n o: u$ that time has opened my eyec, I can fmile at thofe imaginary diftreffes which once perplesed me." -In the fame manner we can put the emphafis upon the other word of the phrafe lowed,-I hate Loved." -Here the paftion is exbibited as the principal circum. fance; and as this can never be excited without fome object, we naturally with to know the object of that paffion-" Who! what have you loved ?" are the natural queftions we would put in this cafe. "I have LOVED_-Eliza."_-_In this manner we are, on all occafions, enabled to exprefs, with the utinot precifion, that particular idea which we would with to excite, io as to give an energy and perfpicuity to the language, which cara never be attained by thofe languages whofe verbs are conjugated by inflection: and if to this we add the inconvenience which all intiected languages are fubject to, by having too finall a num. ber of tenfes, fo as to be compelled to make one word on many occafions fupply the place of two, three, or even four, the balance is turned ftill more in our favour.-Thus, in Latin, the fame word AMilBQ ftands for fball or will love, fo that the reader is left to guefs from the context which of the two meanings it was moft likely the writer had in view. - In the fame manner, may or can love are exprefled by the fame
word AMEM; as are alfo might, could, would, or mouia Language. love, by the fingle word amarem, as we have already obferved; fo that the reader is left to guefs which of thefe four meanings the writer intended to exprefs: which occafions a perplexity very different from that clear precifion which our language allows of, by not only pointing out the different words, but alfo by allowing us to put the emphalis upon any of thern we pleale, which fuperadds energy and force to the precifion it would have had without that affitance.

Upon the whole, therefore, after the moft candid The me. examination, we muft conclude, that the method thot of of conjugating verbs by infection is inferior to that conjugawhich is performed by the help of auxiliaries; -be-by infeccaufe it does not afford fuch a diverlity of founds, - tion infernor allow fuch variety in the arrangement of expref-ior to that fion for the fame thought,-nor give fo great diffinc- which is tion and precifion in the meaning.-It is, however, by ausilia, attended with one confiderable advantage above theries. other method: for as the words of which it is formed are necellarily of greater length, and more fonorous, than in the analogous languages, it admits of a more fowing harmony of expreffion; for the number of monofyllables in this laft greatly checks that pompous dignity which naturally refults from longer words. Whether this fingle advantage is fufficient to counterbalance all the other defe?s with which it is attended, is left to the judgement of the reader to determine:but we may remark, before we quit the fubject, that even this excellence is attended with fome peculiar inconveniences, $u$ eich thall be more particularly pointed out in the fequel.

But perhaps it might ftill be objected, that although the comparifons we have made above may be fair, and the conclufion juft, witl regard to the Latin and Englihh languages; yet it does not appear clear, that on that account the method of conjugating verbs by inflection is inferior to that by auxiliaries; for although it be allowed that the Latin language is defective in point of tenfes; yet if a language were formed which had a fuificient number of inflected terifes to anfiver every purpore; if it had, for inltance, a word properly formed for every variation of each tenfe : one for $I$ lowe, another for I do lowe; one for I foall, another for I will love; one for I might, another for I could, and would, and bould loze; and fo on through all the other tenfes; that this language would not be liable to the objections we have brought againt the inflection of verbs; and that of courfe the objections we have brought are onty valid againt thofe languages which bave followed that mode and executed it imperfectly. - We anfwer, that although this would in fome meafure remedy the evil, yet it would not remove it entirely. For, in the firf place, unlefs every verb, or every fmall number of verbs, were conjugated in one way. having the found of the words in each tenfe, and divifion of tenfes, as we may fay, different from all the other conjugations,-it would alsays occafion a famenefs of found, which would in fome meafure prevent that variety of founds fo proper for a language. And even if this could be effected, it would not give fuch a latitude to the expreflion as auxiliaries allow; for although there fhould be two words, one for $I$ migh, and a another for $I$ could love; yet as thefe are fingle words, they cannot be varied; whereas, by auxiliaries, cither

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Eanguage of thefe can be varied 24 different ways, as has beth fhown above. In the laft place, no fingle word can ever cxprefs all that variety of meaning which we can do by the help of our auxiliaries and the emphalis. $I$ have loved, if exprefied by any one word, could only denote at all times one diftinct meaning; fo that to give it the power of ours, three diltinct words at leaft would be neceflary. However, if all this were done ; that is, if there were a diftinet conjugation formed for every 40 or 50 verbs;-if each of the tenfes were properly formed, and all of them different from every other tenfe as well as eyery other verb; and thefe all carried through each of the different perfons, fo as to be all different from one another; -and if likewife there were a diflinet word to mark each of the feparate meanings which the fame tenfe could be made to affume by means of the emphafis; and if all this infinite rariety of words could be formed in a diftinet manner, different from each other, and harmonious; this language would have powers greater than any that could be formed by auxiliaries, if it were poffible for the human powers to acquire fuch a degree of krowledge as to be able to employ it with facility. But how could this be attained, fince upwards of ten thoufand words would be neceffary to form the variations of any one verb, and a hundred times that number would not include the knowledge of the verbs alone of fuch a language ( E ) ? - How much, therefore, ought we to admire the fimple perfpicuity of our language, which enables us, by the proper application of ten or twelve feemingly trifling words, the maning and ufe of which can be attained with the utmolt eafe, to exprefs all that could be expreffed by this unwieldy apparatus? What can equal the fimplicity or the power of the one method, but the well known powers of the 24 letters, the knowledge of which can be obtained with fo much eafe-and their powers know no limits? -or, what can be compared to the fancied perfection of the other, but the tranfcript of it which the Chinefe feem to have formed in their unintelligible language?

Having thus confidered pretty fully the advantages and defects of each of thefe two methods of varying verbs, we cannot help feeling a fecret wifh arife in our mind, that there had been a people fagacious enough to have united the powers of the one method with thofe of the other; nor can we help being furprifed, that among the changes which took place in the feveral languages of Europe after the downfal of the Roman monarchy, fome of them did not accidentally fumble on the method of doing it. From many concurring circumfances, it feems probable that the greateft part, if not all the Gothic nations that overran Italy at that time, had their verbs varied by the help of auxiliaries; and many of the modern European languages which have fprung from them, have fo far borrowed from the Latin, as to lave fome of the tenfes
us tueir verbs inflected : yet Englinh alone have in Cangu: any inftance conbined the juist powers of the two: which could only be done by fuming inflections for the different tenfes in the fame manner as the Latins, and at the fame time retaining the original method of varying them by auxiliaries; by which means either the one or the other method could have been employed as occation required. We have luckily two tenfes formed in that way; the prefent of the indicative, and the arift of the $p a /$. In almoft all our verbs thele can be declined either with or without auxiliaries. Thus the prefent, witlıut an auxiliary, is, $I$ love, $I$ write, $I /$ peak: with an auxiliary, I do write, I do love, I do Speak. In the fame manner, the paft tenfe, by inflection, is, $I$ loved, I wrote, I fpoke ; by auxiliaries, I did love, I did Spak, I did write. Every author, who knows any thing of the power of the Englifl language, knows the ufe which may be made of this diftinction. What a pity is it that we fhould lave flopt fhort fo foon! how blind was it in many other nations to imitate the defects without making a proper ufe of that beautiful language which is now numbered among the dead!

After the verbs, the next moft confiderable varia- tnalogo ${ }^{20}$ tion we find between the analogous and tranfpofitive and ran languages is in the nouns; the latter varying the dif- pofitive ferent cafes of thefe by inflection; whereas the former compuage exprefs all the different variations of them by the help withreof other words prefixed, called prepofitions. Now, if fpect to we confider the advantages or difadvantages of either cales of of thefe methods under the fame heads as we have done ${ }^{\text {nouns. }}$ the verbs, we fhall find, that with regard to the firft particular, viz. variety of founds, almof the fame remarks may be made as upon the verbs; for if we compare any particular noun by itfelf, the variety of found appears much greater between the different cafes in the tranfpoftive, than between the trantlation of thefe in the analogors language. Thus REX, REGIS, regi, rlgem, \&c. are more diftinct from one another, in point of found, that the tranflation of thefe, aking, of a king, to a king, a king, \&c. But if we proceed one ftep further, and confider the variety which is produm ced in the language in general by the one or the other of thefe methods, the cafe is entirely reverfed. For as it would have been impoffible to form difinet variations, different from one another, for each cafe of every noun, they have been obliged to reduce all their nouns into a few general claffes, called declenfons, and to give to all thofe included under each clafs the fame ter- The formination in every cafe; which produces a like fimila-mer fupe. rity of found with what we already obferved was oc- rior in dicalioned to the verbs from the fame caufe; whereas in veifity of the analogous languages, as there is no neceffity for any conftraint, there is almoft as great a variety of founds as there are of nouns. The Latins have only five different declenfions; fo that all the great number of words of this general order mult be reduced to the very fmäll diverfity of founds which thefe few claffes
adınit
(E) This affertion may perhaps appear to many very much exaggerated: but if any fhould think fo, we unlv teg the favour that he will fet himfelf to mark all the variations of tenfes, mode, perfon, and number, which an Englifı verb can be made to affume, varying each of thefe in every way that it will admit, both as to the diverify of expreffion and the emphafis; he will foon be convinced that we have here fuid nothing more than ewough.

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reage. admit of; and even the founds of thefe few ciafles are not fo much diverfified as they might have been, as many of the different cafes in the differenit declenfons have exactly the fame founds, as we flatl have occafion to remark more fully hereafter. We might here produce examples to fhow the great fimilarity of Counds between different nouns in the Latin language, and variety in the Englif, in the fame way as we did of the verbs: but as every reader in the leaft acquainted with there two languages can fatisfy himfelf in this particular, without any further trouble than by marking down any number of Latin nouns, with their tranlations into En lifl, we think it unneceflary to dwell longer on this particular.

But if the inflection of nouns is a difadrantage to a language in point of diverfity of founds, it is very much the reverle with regard to the variety it allons in the arranging the words of the phrafe. Here, indeed, the tranfpofitive language flines forth in all its glory, and the analogous muft yield the paln without the fmalieft difpute. For as the nominative cafe (or that noun which is the caule of the energy expreffed by the verb) is different from the accufative (or that noun upon whic! the energy expreffed by the verb is exerted), thefe may be placed in any fituation that the writer flall think proper, wilhout occafoning the fmalleft confution: whereas in the analogous languages, as thefe two different flates of the noun are exprelled by the fame word, they cannot be difinguilhed but by their pofition alone : fo that the noun which is the efficient caule mult always precede the verb, and that which is the paffive fubject muft follow; which greatly cramps the harmoritous flow of compofition.-Thus the Latins, without the fmalleft perplexity in the meaning, could fay either Brutum amavit Caffius, or Caffus anzavil Brutum, or Brutum Coflus amavit, or Caffius Brutum amavit. As the termination of the word Caffuus always points out that it is in the nominative cafe, and therefore that he is the perfon from whom the energy proceeds; and in the fame manner, as the termination of the word Brum:m points out that it is in the accufative cafe, and confequently that he is the object upon whom the energy is exerted; the meaning continues fill diftinct and clear, notwithftanding of all thefe feveral variations: whereas in the Englifh language, we could only fay, Cafius loved Brutus, or, by a more forced phrafeology, Caffus Brutus loved: Were we to reverfe the cafe, as in the Latin, the meaning allo would be reverfed; for if we fay Brutus loved Coff ffus, it is evident, that inftead of being the perfon beloved, as before, Brutus now becomes the perfon from whom the energy proceeds, and Cafius becomes the object beloved.-In this refpect, therefore, the analogous languages are greatly inferior to the tranfofitive; and indeed it is from this fingle circumftance alone that they derive their chief excellence.

But although it thus appears evident, that any language, which has a particular variation of its nouns to dittinguifh the accufative from the nominative cafe, has an advantage over thofe languages which have none.; yet it does not appear that any other of their cafes adds to the variety, but rather the reverfe; for, in Latin, we can only fay Amor Dei; in Engliih the fame hrafe may be rendered, cither, -the love of God -of God the love,-or, by a more forced arrangement,

God the luve cf. And as thefe oblique cafes, as the Larbuage * Latins called them except the accufative, are clearly diflinguilhed from (ne another, and from the nominative, by the prepofition which accompanies them, we are not confined to any particular arrancement with regard to thefe as with the accufative, but may place them in what order we pleafe, as in Milton's elegant invocation at the beginning of Paradife Loft:

Of man's frif difobedience, and the fruit Of that forbidden tree, whofe mortal talte Brought death into the world, and all our woe, With lofs of Eden, till one greater Man Reflore us, and regain the blifsful feat, Sing, beavenly Mufe.
In this fentence the tranfpofition is almoft as great as the Latin language would admit of, and the meaning as diflinct as if Milton had begun with the plain language of profe, thus,-Heavenly mufe, fing of man's firft difobedience," \&c.

Before we leave this head, we may remark, that the little attention which feems to have been paid to this peculiar advantage derived from the ufe of an accufative cale different from the nominative, is Comewhat furprifing. The Latins, who had more occafion to attend to this with care than any other nation, and even the Greeks themfelves, have in many cafes overlocked it, as is evident from the various inflances we meet with in their languages where this is not diftinguifhed. For all nouns of the neuter gender both in Greek and Latin have in every declenfon their nominative and accufative fingular alike. Nor in the plural of fuch nouns is there any difitinction between thefe two cafes; and in Latin all nouns whaterer of the third, fourth, and fifh declenfions, of which the number is wery confiderable, have their nominative and accufative plural alike. So that their language reaps no advantage in this refpest from almoft one half of their nouns. Nor have any of the modern languages in Europe. however: much they may have borrowed from the ancient languazes in other refpects, attempted to copy from them in this particular; from which perhaps more advantage would have been gained, than from copying all the other fuppofed excellencies of their language.-But to return to our fubject.

It remains that we confider, whether the inflection Gratly finof nouns gives any advantage over the method of defi-perior as ning them by prepofitions, in point of diftinenefs and of meanion precifion of meaning ? But in this refpect, too, the ana-logous languages mult come off victorious. Indeed this is the particular in which their greatefl excellence confifts; nor was it, we believe, ever difputed, but that, in point of accuracy and precifion, this method muft excel all others, however it may be defective in other refpeals. We obferved under this head, when fpeaking of verbs, that it might perhaps be poffible to form a language by infleciion which thould be capable of as great accuracy as in the more fimple order of auxiliaries: but this would have been fuch an infinite labour, that it was not to be expected that ever human powers would have been able to accomplifh it. More eary would it have been to have formed the feveral inflections of the nouns fo different from one another, as to have rendered it impoffible ever to miftake the meaning. Yet evers this las not been attempted. And as we find that thofe-
langunges.

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I. Tgnege. langunges which have adopted the method of intlecting their verbs are more irrperfect in point of precilion the: the cher. fo the fame may be faid of inflecting the nouns: for, net to mention the energy which the analogrus languages acquire by putting the accert nopor the noun, or its prepolition (when in an oblique cife), according as the fuhject may require, to exp:efs which variation of meaning no particular rariety of Won Is have been inveated in any inflected language, they are not even complete in other refpects. "The Jainn, in particular, is in many cales defective, the fame termination being employed in many inflances for different cales of the fame noun. Thus the genitive and dative fingular, and nominative and vocative plural, of the firlt declenfion, are all exactly alike, and can only be diltinguithed from one another by the formation of the fentences;-as are alfo the nominative, vocative, and ablative fingular, and the dative and ablative plural. In the fecond, the genitive fingular, and nominative and vocative plural, are the fame; as are alfo the dative and ablative fingular, and dative and ablative plural ; except thofe in UM, whofe nominative, accufative, and vocative ingular, and nominative, accufative, and vocative plural, are alike. The other three declenfions agree in as many of their cafes as thefe do; which evidently tends to perples the meaning, unlels the hearer is particularly attentive to, and well acquainted with the particular confluction of the other parts of the fentence; all of which is totally removed, and the cleareft certainty exhibited at once, by the help of prepofitions in the analogeus languages.

It will hardly be neceffary to enter into fuch a minute examination of the advantages or difadvantages attending the variation of adjectives; as it will appear evident, from what has been already faid, that the endowing them with terminations fimilar to, and correfponding with, fub/tantites, muft tend fill more to increafe the fimilarity of founds in any language, than any of thofe particulars we have already taken notice of; and were it not for the liberty which they have, in tranfpofitive languages, of feparating thé ad. jectire from the fubitantive, this muft have occafioned fuch a jingle of fimilar founds as could not fail to have been moft difgufting to the ear: but as it would have been impoffible in many cafes, in thofe languages where the verbs and nouns are inflected, to have pronounced the words which ought to have followed each other, unlefs their adjectives could have been feparated from the fubtlantives; therefore, to remedy this inconvenience, they were forced to devile this unnatural method of inflecting them alfo; by which means it is eafy to recognife to what fubftantive any adjective has a reference, in whatever part of the fentence it may be placed. In thefe languages, therefore, this inflexion, both as to gender, number, and cafe, becomes abfolutely neceffary; and, by the diverfity which it admitted in the arranging the words of the feveral phrafoc, might counterbalance the jingle of fimilar founds which it introduced into the language.

Having thus cxamined the moft friking particulars in which the tranfpolitive and analogous languages differ, and endeavoured to how the general tendency of every one of the pariculars feparately, it nould not be fair to difmifs the fubjeet without confidering each of thefe as a whole, and pointing out
their general tendency in that light: for we all know, Langu: that it often happens in human inventions, that every part which compofes a whole, taken feparatcly, may appear extremely fine; and yet, when ail thele parts are put together, they may not agree, but produce a jarring and confufion very different from what we might have expected. We therefore inaginc a few remarls upon the genius of each of thele 50 difinst toroms of lavguage confidered as a whole will not be deensed ufelef?

Although all languages agree in this refpeet, that The tra they are the means of conseying the ideas of one man Uum... to another; yet as there is an infinite variety of ways om firter in which we night with to convey thefe ideas, fome-compofi times by the eafy and familiar mode of converfation,tion. and at other times by more folemn addreffes to the underflanding, by pompous declamation, \&c. it may fo happen, that the genius of one language may be more properly adapted to the one of thete than the other, while another language nay excel in the oppofite particular. This is exactly the cafe in the two general 1 dows of which we now treat. Exery particular in a ranfogfitive language, is peculiarly calculated for that folemn dignity which is neceffary for pompous rations. Long founding words, formed by the inflection of the difierent parts of feech,-fiowing periods, in which the attention is kept awake by the harmony of the founds, and in expectation of thas word which is to unravel the whole,-if compored by a fkilful artift, are admirably fuited to that folemn dignity and awful grace which conffitute the effence of a public harangue. On the contrary, in private conver- The ${ }^{26}$ fation, where the mind wifhes to unbend itfelf withgous for eafe, thefe become fo many clogs which encumber private and perplex. At thefe moments we with to transfufe converia. our thoughts with eafe and facility-we are tired with writend every unneceffary fyllable-and wilh to be freed fromalogue. the trouble of attention as much as may be. Like our ftate robes, we would wifh to lay afide our pompous language, and enjoy ourfelves at home with freedom and eafe. Here the folemnity and windings of the tranfpofive language are burdenfome; while the faci. lity with which a fentiment can be expreffed in the aralogous language is the thing that we will to acquire. Accordingly, in Terence and Plautus, where the beauties of dialogue are molt charmingly difplayed, tranfpofition is faringly ufed. In this humble, though moft engaging fphere, the analogous language moves unrivalled; in this it wifhes to indulge, and rever tires. But it in vain attempts to rival the tranfpofitive in dig. nity and pomp: The number of monolyllables interrupts the fow of harmony; and although they may give a greater variety of founds, yet they do not natuturally poffef that dignified gravity which fuits the other language. This, then, muft be confidered as the friking particular in the genius of thefe two different idioms, which marks their characters.

If we confider the effects which thefe two diffe. rent characters of language muft naturally produce upon the people who employ them, we will foon perceive, that the genius of the analogous language is much more favourable for the mof engaging purpofes of life, the civilizing the human mind by mutual intercourfe of thought, than the tranfrofitive. For as it is chiefly by the ufe of fpeech that man is raifel above

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anguage. the bnute creation;-as it is by this means he improves every faculty of his mind, and to the obfervations which he may himfelf have made, has the addicional advantage of the experience of thofe with whom he may converfe, as well as the knowledge which the human race have acquired by the accumulated experience of all preceding ages;-as it is by the enlivening glow of converfation that kindred fouls catch fire from one snother, that thought produces thought, and each improves upon the other, till they foar beyond the bounds which human reafon, if left alone, could ever lave afpired to ;-we muft furely confider that language as the moft beneficial to fociety, which moft effectually removes thofe bars that obftrutt its progrefs. Now, the genius of the analogous languages is fo eafy, fo fimple and plam, as to be within the reach of every one who is born in the kingdom where it is ufed to fpeak it with facility: even the rudett among the vulgar can hardly fall into any confiderable grammatical errors: whereas, in the tran/pofitive languages, fo many rules are neceflary to be attended to, and fo much variation is produced in the meaning, by the flighteft variations in the found, that it requires a fludy far above the reach of the illiterate mechanic ever to attain. So that, how perfect foever the language may be when fpoken with purity, the bulk of the nation muft ever labour under the inconvenience of rudenefs and inaccuracy of fpeech, and all the evils which this maturally produces.-Accordingly, we find, that in Rome, a man, even in the higheft rank, received as much honour, and was as much diflinguihed among his equals, for being able to converfe with eafe, as a modern author would be for writing in an eafy and elegant fyle; and Cerfar among his contemporaries was as much efteemed for his fuperiority in fpeak ing the language in ordinary converfation with eafe and elegance, as for his powers of oratory, his flill in arms, or his excellence in literary compofition. It is needlefs to point out the many inconveniences which this muft unavoidably produce in a flate. It is fufficient to obferve, that it naturally tends to introduce a valt diffinction between the different orders of men; to fet an impenetrable barrier between thofe born in a high and thofe born in a low fation; to keep the latter in ignorance and barbarity, while it elevates the former to fuch a height as muft fubject the other to be eafily led by every popular demagogue.-How far the hirlory of the nations who have followed this IDIOM of language confirms this obfervation, every one is left to judge for himfelf.

Having thus confidered Language in general, and pointed out the genius and tendency of the two mort dittingu:hed idoms which have prevailed; we thall clofe thefe remarks with a few obfervations upon the particular nature and genius of thofe lanequages which are now chietly fooken or fudied in Europe.

Of all the nations whofe memory hiflory has tranfmitted to us, none have been fo eminently diftinguilhed for their literary accomplifhments, as well as acquaintance with the polite arts, as the Grecks: nor are we as yet acquainted with a language poffelied of fo many advantages, wit? fo ferr defects, as that which they ufed, and which continues fitll to be known by their name. -The neceflary connexion between the progrefs of knowledge and the improvement of language, has Vol. XI. Part II.
been alreaty explained; fo that it will not be fur- Irnguage. priling to find their progrefs in the one keep pace with that of the other: but it will be of utility to point out fome advantages which that dillinguihed people pulfefied, which other nations, perhaps not lefs diltinguithed for talents or talle, have not enjoyed, which have contributed to render their language the moll univerfally admired in ancient as well as in modern times.

It has been already obferved, that the original inlabi. The greas tants of Greece who were grols favages, and whofe lan- fuperiurity guage of courfe would be very rude and narrow, were firt uf the tamed by the Pelafgi, an caftern or an Egyptian tribe. guage, owFrom the eaft it is well known that arts and fciences ing fo what were fpread over the rell of the world, and that Egypt-aufes. was one of the countries firtt civilized. The Janguage therefore imported into Greece by the Pelafgi would be pure from the fountain head, and much more perfect in its ftructure than if it had been tranfmitted through many nations. But this wa, not the only circumflance highly fortunate for the Greek language. Before it had time to be fully eftablifhed among the people, its alperities, which it had in common with the othar dialects of the eaft, were polihed away by fuch a fuccellion of poets, muficians, philofophers and legillators, from different countries, as never appeared in any other nation at a period $\mathrm{f}_{0}$ earlyas to give their genius and tafte its full influence. In this refpect, no people were ever fo eminently diftinguibed as the ancient Greeks, who had their Orpheus, their Linus, their Cecrops, and their Cadmus, who introduced their different iniprovements at a time when the nation had no ftandard of tafte formed by itfelf. Hence the original founds of the Greek language are the moft harmonious, and the moolt agreeable to the ear, of any that have hitherto been invented. They are indeed agreeable to every perfon who hears them, even when the meaning of the word is not underfood; whereas almofl all other languages, till they are underflood, appear, to an ear which has not been accuftomed to them, jarring and difcordant. This is the fundamental excellence of that juftly admired language ; nor have the people failed to improve this to the nemolt of their power, by many aids of their own invention. The Greek language is of the tran/pofitive hind: but a people fo lively, fo acute, and fo loquacious, could ill bear the ceremonious reftraint to which that mode of language naturally fubjected them: and have therefore, by various methods, freed it in a great mea'ure from the flifnefs which that produced. In intlecting their nouns and verbs, they fometimes prefix a fyllable, and fometimes add one; which, befides the variety that it gives to the founds of the language, adds greatly to the diftinctnefs, and admits of a more natural arrangement of the words than in the Latin, ard of confequence renders it much fitter for the eafinefs of private converfation: and indeed the genius of the people to far prevailed over the idion of the language, as to render it, in the age of its greatelt perfection, capable of almoft as much eafe, and requirine almoft as little tranfpofition of words, as thofe languages which have been called analogous. But as thole nations who froke this language were all governed by popular aficmblice, and as no authority could be obtained among thein but by a ©kill in rhetoric and the powers of perfuafion ; it 3 X became

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Language. became neceffary for every one, who wifhed to acquire power or confideration in the flate to improve himfelf in the knowledge of that languaze, in the ufe of which alone he could expect honours or reputation. Hence it happened, that while the vivacity of the people rendered it eafy, the great men ftudioully improved every excellence that it could reap from its powers as a tranforfitive language; fo that, when brought to its utmolt perfection by the amazing genius of the great Demofthenes, it attained a power altogether unknown to any other language.-Thus happily circumftanced, the Greek language arrived at that envied pre-eminence which it Atill juflly retains. From the progrefs of arts and fciences; from the gaiety and inventive genius of the people; from the number of free flates into which Greece was divided, each of which invented words of its own, all of which contributed to the general Aock; and from the natural communication which took place between thefe flates, which excited in the Atrongeft degree the talents of the people; it acquired a copioufnefs unknown to any ancient language, and excelled by few of the moderns.-In point of harmony of numbers, it is altogether unrivalled; and on account of the eafe as well as dignity which, from the caufes above mentioned, it acquired, it admits of perfection in a greater number of particular kinds of compofition than any other language known. -The irrefiftible force and overwhelming impetuofity of Demofthenes feem not more natural to the genius of the language, than the more flowery charms of Plato's calm and harmonious cadences, or the unadorned fimplicity of Xenophon; nor does the majeftic pomp of Homer feem to be more agreeable to the genius of the language in which he wrote, than the more humble ftrains of Theocritus, or the laughing feftivity of Anacreon: Equally adapted to all purpofes, when we perufe any of thefe authors, we would imagine the language was mof happily adapted for his particular ftyle alone. The fame powers it likewife, in a great meafure poffeffed for converfation; and the dialogue fcems not more natural for the dignity of Sophocles or Euripides, than for the more eafy tendernefs of Menander, or buffoonery of Arifophanes.-With all thefe advantages, however, it muft be acknowledged, that it did not poffefs that unexceptionable clearnefs of meaning which fome analogous languages enjoy, or that charatcriftic force which the emphafis properly varied has power to give, were not thefe defects counterbalanced by other caufes which we thall afterwards point out.

The Romans, a people of fierce and warlike difpo-

The Latin language minferior to zhe Greek sid why. fitions, for many ages during the infancy of their republic, more intent on purfuing conquefts and military glory than in making improvements on literature or the fine arts, beftowed little attention to their language. Of a difpofition lefs focial or more phlegmatic than the Greeks, they gave themfelves no trouble about rendering their language fit for converfation; and it remained ftrong and nervous, but, like their ideas, was limited and confined. More difpofed to command sefpect by the power of their arms, than by the force of perfuafion, they defpifed the more effeminate powers of fpeech: fo that, before the Punic wars, their language was perhaps more referved and uncourtly than agy. other at that time known,-But after their rival

Carthage was deftroyed, and they had no longer that Kangua powerful curb upon their ambition; when riches fluwed in upon them by the muliplicity of their conquefts; -luxury began to prevail, the flem aufterity of their manner to relas, and felfin ambition to take place of that diinterelled love for their country fo eminently confpicuous among all orders of men before that pe-riod.-Popularity began then to be courted; ambitious men, finding themfelves not poffeffed of that merit which enfured them fuccefs with the virtuous $\sqrt{ } \mathrm{e}$ nate, amufed the mob with artful and feditious harangues; and by making them believe that they were poffeffed of all power, and had their facred rights encroached upon by the fenate, led them about at their pleafure, and got themfelves exalted to honours and riches by thefe irfidious arts. It was then the Romans firft began to perceive the ufe to which a command of language could be put. Ambitious men then fludied it with care, to be able to accomplifh their ends; while the more virtuous were obliged to acquire a fkill in this, that they might be able to repel the attacks of their adverfaries.- Thus it happened; that in a fhort time that people from having entirely neglected, began to Atudy their language with the greateft affiduity; and as Greece happened to be fubjected to the Roman yoke about that time, and a friendly intercourfe was eftablifhed between thefe two countries, this greatly confpired to nourif in the minds of the Romans a tafte for that art of which they had lately become fo much enamoured. Greece had long before this period been corrupted by luxury; their tafte for the fine arts had degenerated into unneceffary refinement ; and all their patriotifm confiled in popular harangues and unmeaning declamation. Oratory was then itudied as a refined art; and all the fubtleties of it were taught by rule, with as great care as the gladiators were afterwards trained up in Rome. But while they were thus idly trying who fhould be the lord of their own people, the nerves of government were relaxed, and they became an eafy prey to every invading power. In this fituation they became the fubjects, under the title of the allies, of Rome, and introduced among them the fame tafte for haranguing which prevailed among themfelves. Well acquainted as they were with the powers of their own language, they fet themfelves with unwearied affiduity to polifh and improve that of their new mafters: but with all their affiduity and pains, they never were able to make it arrive at that perfection which their own language had acquired; and in the Auguftan age, when it had arrived at the fummit of its glory, Cicero bitterly complains of its want of copioufnefs in many particulars.

But as it was the defire of all who fludied this lan-It could guage with care, to make it capable of that ftately not be car dignity and pomp neceffary for public harangues, they ried to the followed the genius of the language in this particular, free of pel and in a great meafure neglected thofe leffer delicacies Rection. which form the pleafure of domeftic enjoyment; fo that, while it acquired more copioufnefs, more harmony, and precifion, it remained fliff and inflexible for converfation : nor could the minute diflinction of nice grammatical rules be ever brought down to the apprehenfion of the vulgar ; whence the language fooken among the lower clais of people remained rude and unpolifhed even to the end of the monarchy. The

has exhibited the language in its puref elegance, with. Languas: out the aid of pomp or foreign onnament. Among the poets, Virgil has belt adapted his works to his language. The Howing harmony and pomp of it is well adapted for the epic Itrain, and the correct delicacy of his tafte rendered him perfeetly equal to the takk. But Horace is the only poet whofe force of genius was able to overcome the bars which the language threw in his way, and fucceed in lyric poetry. Were it not for the brilliancy of the thoughts, and acutenefs of the remarks, which fo eminently diftinguifh this author's compofitions, his odes would long ere now have funk into utter oblivion. But fo confcious have all the Roman poets been of the unfinefs of their language for eafy dialogue, that almoft none of them, after Plautus and Terence, have attempted any dramatic compofitions in that language. Nor have we any reaion to regret that they neglected this branch of poetry, as it is probable, if they had ever become fond of thefe, they would have been obliged to adopt fo many unnatural contrivances to render them agrecable, as would have prevented us (who of courfe would have confidered ourfelves as bound to follow them) from making that progrefs in the drama whicir fo particularly diftinguithes the productions of modern times.

The modern flalian language, from an inattention The Itatian too common in literary fubjects, has been ufually call- language of ed a child of the Latin langugge, and is commonly be-Go:hi" idilieved to be the ancient Latin a little debafed by the ${ }^{\mathrm{om}}$, and mixture of the barbarous language of thofe people who conquered Italy. The truth is, the cafe is directly the reverfe: for this language, in its general idiom and fundamental principles, is evidently of the analogous kind, firt introduced by thofe fierce invaders, although it has borrowed many of its words, and fome of its modes of phrafeology, from the Latin, with which they were fo intimately blended that they could fcarcely be avoided; and it has been from remarking this fight connexion, fo obvious at firft fight, that fuperficial obfervers have been led to draw this general conclufion, fo contrary to fact.

When Italy was overrun by the Lombards, and the empire deffroyed by thefe northern invaders, they, as conquerors, continued to fpeak their own native language. Fierce and illiterate, they would not foop to the fervility of fludying a languave fo clogged with rules, and difficult of attainment, as the Latin would naturally be to a people altogether unacquainted with nice grammatical diftintions: while the Romans, of neceffity, were obliged to fludy the language of their conquerors, as well to obtain fome relief of their grievances by prayers and fupplications, as to deflroy that odious diftinction which fubfifted between the conquerors and conquered, while they continued as diftinct people. As the language of their new mafters, although rude and confined, was natural in its order, and eafy to be acrquired, the Isatins would foon attain a competent fikill in it : and as they bore fuch a pronortion to the whole number of people, the "hole language wculd partake fomewhat of the general found of the former : for, in fite of all their efforts to the contrary, the organs of fpeech could not at once be made to acquire a perfect power of uttering any unaccuttomed founds; and as it behoved the language of the barbarians to be much lefs conious than the Latin, whenever

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Langaaze. they found themfeives at a lofs for a word, they would naturally adopt thofe which moft readily prefented themfelves from their new fubjects. Thus a language in time was formed, fomewhat refembling the Latin both in the general tenor of the founds and in the mean-

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Has the de fects of both its parent Tongu.
ing of many words: and as the barbarians gave themfelves little trouble about language, and in Come cafes perhaps hardly knew the general analogy of their own language, it is not furprifing if their new fubjects thould find themfelves fometimes at a lofs on that account ; or if, in thefe lituations, they followed, on fome occafions, the analogy fuggelted to them by their own: which accounts for the ftrange degree of mixture of heterogeneous grammatical analogy we meet with in the Italian as well as Spanifh and French languages. The idiom of all the Gothic languages is purely analogous; and in all probability, before their mixture with the Latins and other people in their provinces, the feveral grammatical parts of fpeech followed the plain fimple idea which that fuppofes, the verbs and nouns were all probably varied by auxiliaries, and their adjectives retained their fimple unalterable Itate:-But by their misture with the Latins, this fimple form has been in many cafes altered: their verbs became in fome cafes infected; but their nouns in all thefe languages fill retained their original form; although they have varied their adjectives, and foolilhly clogged their nouns with gender, according to the Latin idioms. From this heterogeneous and fortuitous (as we may fay, becaufe injudicious) misture of parts, refults a language poffefing almoft all the defects of each of the languages of which it is compofed, with fer of the excellencies of either: for it has neither the eafe and precifion of the analogous, nor the pomp and boldnefs of the tranfofitive, languages; at the fame time that it is clogged with almolt as many rules, and liable to as great abufes.

Thefe obfervations are equally applicable to the French and Spanih as to the ltalian language. With regard to this laft, in particular, we may obferve, that as the natural inhahitants of Italy, before the lat invation of the barbarians, were funk and enervated by luxury, and by that depretion of mind and genius which anarchy always produces, they had become fond of feafting and entertainments, and the enjoyment of fenfual pleafures conilituted th.eir higheit delight ; and their language partook of the fame debility as their body-The barbarians tov, unaccuftomed to the feductions of pleafure, foon fell from their original boldnefs and intrepidity, and, like Hannibal's troops of oll, were enervated by the fenfual gratifications in which a nation of conquerors unacculomed to the reAtraint of government freely indulged. The foftuefs of the air, the fertility of the climate, the unaccuftomed thow of riches which they at once acquired, together with the voluptuous manner of their conduered fubject:; all confpired to enervate their minds, and render them foft and effeminate. No wonder then, if a language nerr-moulded at this junclure hou'd partake of the genius of the people who formed it; and inflead of participating of the martial bol fnef and ferocity of either of their anceftors, thould be foftened and enfeebled by every device which an efeminate people could invent.-The flong confonants which terminated the words, and gave tnem life and boldnels, be-
ing thought too harfh for the delicate cars of thefe languag fons of floth, were banithed their language; while fonorous vowels, which could be protracted to any length in mufic, were fubfituted in their flead.- Thus the and ${ }^{3+}$ Italian language is formed Howing and harmonious, though but delfitute of thofe nerves which conllitute the Howing a flrength and vigour of a language : at the farme time, haranonithe founds are neither enough diverlified, nor in them-feeble for felves of fuch ar agreeable tone, as to afford great the highe pleafure without the aid of mufical notes; and the frecies of fmall pleafure which this affords is Atill lefienced by the emmporilittle variety of meafure which the great fimilarity of ${ }^{\text {tion. }}$ the terminations of the words occalions. Hence it happens, that the language is fitted for excelling in fewer branches of literature than almoft any other: and although we have excellent hiltorians, and nore than ordinary poets, in Italian, yet they labour under great inconveniences, from the language wanting nerves and ftate'inefs for the former, and fufficient variety of modulation for the latter. It is, more particularly on this account, altogether unfit for an epic poem : and though attempts have been made in this way by two men, whofe genius, if not fettered by the language, might have been crowned with fuccels; yet thefe, notwithfanding the fame that with fome they may have acquired, muft, in point of poetic harmony, be deemed defective by every impartial perfon. Nor is it poffible that a language which hardly admits ot poetry without rhime, can ever be capable of producing a perfect poom of great length; and the flanza to which their poets have ever confined themfelves, muit always produce the moft difagreeable effect in a poem where une reflrained pomp and pathos are neceffary qualifications. The only fpecies of poetry in which the Italian language can claim a fuperior excellence, is the tender tone of elegy: and here it remains unrivalled and alone ; the plaintive melody of the founds, and fmooth flow of the language, being perfectly adapted to exprefs that foothing melancholy which this fpecies of poetry requires. On this account the plaintive fcenes of the Pafor Fido of Guarini have juflly gained to that poom an univerfal applaufe; although, unlefs on this account alone, it is perhaps inftrior to almolt every other poem of the kind which ever appeared.We muft obferve with furprife, that the 1 talians, who lave fettered every other fpecies of poctry with the fevereft thackles of rhme, have in this fpecies flowed an example of the moof unreftraincd freedom; the happy effects of which ought to have taught all Europe the powcrful charms attending it : yet with :amazenent we perceive, that fcarce an attenipt to imitate them has been made by any poet in Europe except by Milton in his Lycidas; no dramatic poet, even in Britain, having ever adopted the unreflramed harmony of numbers to be met with in this and many other of their beft dramatic compofitions.

Of all the languages which fprung up from the mix-The exce ture of the Latins with the northern people on the lency of deflrution of the Roman empine, none approach fo the span near to the genius of the Latin as the Spanilh does.-- tongue. For as the Spaniards have been always remarkable for their military prowefs and dignity of mind, theirlanguage is maturally adapted to exprefs idcas of that kind. Soniorous and folemn, it admits nearly

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anguage. of as much dignity as the Latin. For converfation, $\overbrace{-}$ it is the molt elegant and courteous language in Europe.

The humane and generous order of chivalry was firf invented, and kept its footing longelt, in this nation; and alchough it ran at laft into fuch a ridiculous excefs as defervedly made it fall into univerfal difrepute, yet it left fuch a throng tincture of romantic heroifm upon the minds of all ranks of people, as made them jealous of their glory, and ftrongly emulous of cultivating that heroic politenefs, which they confidered as the higheft perfection they could attain. Every man difdained to flatter, or to yield up any point of honour which he poffefied; at the farre time, be rigoroufly exacted from others all that was his due.Thefe circumitances have given rile to a great many terms of refpect and courteous condefcenfion, without meannefs or flattery, which gave their dialogue a refpeitul poitenefs and elegance unknown to any other European language. This is the reafon why the charảters fo finely drawn by Cervantes in Don Quixotte are fill undnoirn to all but thofe who underftand the lnguage in which he wrote. Nothing can be more unlicie the gentle meeknefs and humane heroifn: of the knight, or the native fimplicity, warmth of affection, and refpeefful loquacity of the fquire, than the inconittent follies of the ane, or the impertinent forward$r=f$ s and difrefpeetful petulance of the other, as they are exhibited in every Englith tranfation. Nor is it, as we imagine, pollible to reprefent fo much familiarity, mited with fuch becoming condefcenfion in the one, and unfeigned deference in the other, in any other Europear language, as is neceltary to paint thefe two admirable characters.

Although this language, from the folemn dignity and majettic elegance of its fructure, is perhaps better quaitied than any other modern one for the fublime Ilrains of epic poetry; yet as the poets of this nation have all along imitated the Italians by a moft fervile fubjection to thime, they never have produced one poem of this fort, which in point of poefy or flyle deferves to be tran mitted to pefferity. And in any other fpccies of poetry bit ihis, or the higher tragedy, it is not naturally fitted to excel. Fut although the drama and other polite bratiches of literature were tarly cultirated in this country, and made confiderable progrefs in it, before the thirft of gain debared their fouls, or the defire of univerfal dominion made them forfeit that liberty which they once fo much prized; fince they became enervated by an overbearing pride, and their minds enflaved by fuperfition, all the polite arts have been neglected : fo that, while other European nations have been advancing in knowledge, ard improving thei language, they have remained in a flate ot torpid inactivity; and their language has not arrived at that perfection which its nature would admit, or the acute genius of the people might have made us naturally ex;ect.

It will perhaps by forse be thought an unpardon. chrench It "IIt perbaps by 1onee be infult, if we do not allow the French the preferficient ir, ence of all modern lanǵuages in many reffects. But ergy; but fo far mult we pay a deference to truth, as to be obliged to rank it among the pooreit languages in Europe. Ever other languacre has fome founds which can be uitered clearly by the voice: even the Italian,
although it wants energy, fill pofiefies difinctnefs uf Languge. articulation. But the French is almot incapable of $\underbrace{-}$ either of the fe beauties; for in that language the vowels are fo much curtailed in the pronunciation, and the words run into one another in fuch a manner as neceffarily to produce an indiftinctnefs which renders it incapable of meafure or harmony. From this caufe, it is in a great meafure incapable of poctic modulation, and rhime has been obliged to be fubltituted in its flead ; fo that this pooreft of all contrivances which has ever yet been invented to diftinguilh poetry from profe, admitted into all the modern languages when ignorance prevailed over Europe, has fitll kept fome footing in the greateft part of thefe, rather through a deference for eitablihed cuftoms than from any neceffity. Yet as the French language admits of fo little [oetic modulation, rhime is in fome meafure neceffary to it; and therefore this poor deviation from prole has been adopted by it, and dignified with the name of Poctry. But hy their blind attachment to this artifice, the French have neglected to improve, fo much as they might have done, the fmall powers for harmony of which their language is poffefed; and by being long accultomed to this falfe talte, they have become fonit of it to fuch a ridiculous excefs, as to have all their tragedies, may even their comedies, in rhime. While the poet is obliged to enervate his language, and check the flow of compofition, for the fake of linking his lines together, the judicious aftor finds more dificulty in deftroying the appearance of that meafure, and preventing the clinking of the thimes, than in all the reft of his tall.-After this, we will not be furprifed to find Voltaire attempt an epic poem in this fpecies of poetry; aithough the more judicious Fenelon in his Telemaque had fhown to his countrymen the only fpecies of poely that their language could admit of for any. poem which afpired to the dignity of the epic ftrain.-Madam Deftouliers, in her Idyl/ie, has flown the utmofl extent of barmony to which their language can attain in fnatler poems: indeed in the tendernels of an elegy, or the gaiety of a fong, it may fucceed; but it is fo deftitute of force and energy, that it can never be able to reach the pindaric, or even ferlaps the lyric ftrain,-as the ineffectual $\in$ forts even of the harmonious Roufleau, in his trantation of the Plalms of David, of this flamp, may fully convince us.

With regard to its powers in other [pecies of compofition, the fententious rapidity of Voltaire, and the more nervous dignity of Rouffeau, afford us no fmall prefumption, that, in a Rilful hand, it might acquire fo much force, as to tranimit to futurity hiftorical facts in a ftyle not altogether unworthy of the fubject. In atternpts of pathetic declamation, the fupcrior abilities of the compofer may perhaps on fome occafions excite a great idea; but this is ever cramped by the genius of the language: and aithough no nation ia Europe can boaft of fo many orations where this grandeur is attempted; yet pethaps there are ferw who cannot produce more perfect, although not more laboured, compolitions of this kind.

But notwithftanding the French language lahours under all thefe inconveniences; although it can neither egual the dignity or genuine politencts of the Spanilh, the nervous holdnefs of the Englith, nor the irelting focinefs of the Italian; although it is dectitute of

Einguage. poetic harmony, and fo much cramped in found as to be abfolutely unfit for almof every feecies of mufical compofition (F) ; yet the fprightly genius of that volatite people has been able to furmount all thefe dilficulties,

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admiratly
fited for light converfation. and render it the laograge molt generally efteemed, and mott unirerfally fpoken of any in Europe; for this people, naturally gay and loquacious, and fond to excefs of thofe fuperficial accomplifhments which engage the attention of the fair fex, has invented fuch an infinity of words capable of exprefling vague and unmeaning compliment, now dignified by the name of politenefs, that, in this atrain, one who ufes the French can never be at a lofs; and as it is eafy to converfe more, and really fay $l_{e} f$, in this than in any other language, a man of very moderate talents may diftinguifh himfelf much more by ufing this than any other that has ever yet been invented. On this account, it is peculiarly well adapted to that fpecies of converfation which muft ever take place in thofe general and promifcuous companies, where many perfons of both fexes are met together for the purpofes of relaxation or amufement; and mult of courfe be naturally admitted into the courts of princes, and affemblies of great perfonages, who, having fewer equals with whom they can affociate, are more under the neceflity of converfing with Itrangers, in whofe company the tender ftimulus of friendifip does not fo naturally expand the heart to mutual truft or unreftrained confidence. In thefe circumflances, as the heart remaineth difengaged, converfation muff neceffarily flag; and mankind in this fituation will gladly adopt that language in which they can converfe moft eafily without beiag deeply interefted. On thefe accounts the French now is, and probably will continue to be, reckoned the nooft polite language in Europe, and therefore the moft generally fudied and known : nor fhould we envy them this diftinction, if our countrymen would not weaken and enervate their own manly language, by adopting too
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The excellenries $\cdot \mathrm{d}$ defects of the Englinh rongue. many of their unmeaning phrafes.
The Englifh is perhaps poffeffed of a greater degree of excellence, blended with a greater number of defects, than any of the languages we have hitherto mentioned. As the people of Great Britain are a bold, daring, and impetuous race of men, fubject to firong palfions, and from the abfolute freedom and independence which reigns amongh all ranks of people throughout this happy ifle, little folicitous about con-
trolling thefe paffions;-our langunge takes its ftrong- Langua eft characteriftical diltinction from the genius of the $\quad$ people; and, being beld, daring, and abrupt, is admirably well adapted to exprefs thofe great emotions which fring up in an intrepid mind at the profpect of intereiting events. Peculiarly happy too in tle full and onen founds of the vowels, which forms the characteritic tone of the language, and in the ftrong ufe of the afpirate H in almoil all thofe words which are ufed as exclamations, or marks of ftrong emotions upon interefting occafions, that particular clafs of words called interjections have, in our language, more of that fulnefs and unreltrained freedom of tones, in which their chief power confifis, and are puhthed forth from the inmoft receffes of the foul in a more forcible and unreftrained manner, than in any other language whatever. Hence it is more peculiarly adapted for the great and interefting fcenes of the dramd than any language that has yet appeared on the globe. Nor has any other nation ever arrived at that perfection which the Englifh may jufly claim in that refpect ; for however faulty our dramatic compofitions may be in fone of the critical niceties which relate to this art, -in nervous force of diftion, and in the natural expreffion of thofe great emotions which conftitute its foul and energy, we claim, without difpute, an unrivalled fuperiority. Our language too, from the great intercourfe that we have had with almoft all the nations of the globe by means of our extenfive commerce, and from the eminent degree of perfection which we have attained in all the arts and fciences, has acquired a copioufnefs beyond what any other modern language can lay claim to; and even the moft partial favourers of the Greek language are forced to acknowledge, that, in this refpect, it muft give place to the Englifh. Nor is it lefs happy in that facility of conftruction which renders it more peculiarly adapted to the genius of a free people, than any other form of language. Of an idiom purely analogons, it has deviated lefs from the genius of that idiom, and poffeffes more of the characterillic advantages attending it, than any other language that now exiffs: for, while others, perhaps by their more intimate connexion with the Romans, bave adopted fome of their traufpofitions, and clogged their language with unneceflary fetters, we have preferved ourfelves free from the contagion, and ftill retain the primitive fimplicity of our language. Our
(F) An author of great difcernment, and well acquainted with the French language, has lately made the fame remark; and as the loftinefs of his genius often prevents him from bringing down his illuftrations to the level of ordinary comprehenfion, he has on this and many other occafions been unjufly accufed of being fond of patadoxes.--But as mufic never produces its full effect but when the tones it aflumes are in unifon with the idea that the words naturally excite, it of neceflity follows, that if the words of any language do not admit of that fulnefs of found, or that fpecies of tones, which the paffion or affection that may be defribed by the words would naturally require to excite the fame idea in the mind of one who was unacquainted with the language, it will be impolfible for the mufic to produce its full effect, as it will be cramped and confined by the found of the words, -and as the French language does not admit of thofe full and open founds which are neceflary for pathetic expreffion in mufic, it muft of courfe be unfit for mufical compofition.- It is true indeed, that in modern times, in which fo little attention is beftowed on the fimple and fublime charms of pathetic expreffion, and a fantaftical tingling of unmeaning founds is called mufic-where the fenfe of the words is lof in fugues, quavers, and unneceffary repetition of particular fyllables,-all languages are nearly fitted for it ; and among thefe the French : nor is it lefs to be doubted, that, in the eafy gaiety of a fong, this language can properly enough ?sinit of all the mufical expreffion which that fpecies of conpofition may require.
nguage. verbs are all varied by auxiliaries (except in the infance we have alrcady given, which is fo much in our favour); our nowns remain free from the perplexing embarraffiment of genders, and our pronouns mark this diftinction where neceflary with tl.e molt perfect accuracy; our articles allo are of courfe freed from this unnatural encumbrance, and our adjeclives preferve their natural freedom and independence. From thefe caufes our language follows an order of conllruction fo natural and ealy, and the rules of fyntax are fo few and obvious, as to be within the reach of the mof ordinary capacity. So that from this, and the great clearnefs and diftinctnefs of meaning with which this mode of confruction is neceffarily accompanied, it is much better adapted for the familiar intercourle of private fociety, and liable to fewer errors in ufing it, than any other language yet known; and on this account we may boaft, that in no nation of Europe do the lower clafs of people fpeak their language with fo much accuracy, or have their minds fo mach enlightened by knowledge, as in Great Britain
What then flall we fay of the difcerument of thofe grammarians, who are every day echoing back to one another complaints of the poverty of our language on account of the few and fimple rules which it requires in fyntax? As juitly might we complain of an invention in mechanics, which, by means of one or two fimple movements, obvious to an ordinary capacity, little liable to accidents, and eafily put in order by the rudeft hand, fhould poffefs the whole powers of a complex machine, which had acquired an infinite apparatus of wheels and contrary movements, the knowledge of which could only be acquired, or the various accidents to which it was espofed by ufing it be repaired, by the powers of the ingenious artift, as complain of this charaderiftic excellence of our language as a defect.

But if we thus enjoy in an eminent degree the advantages attending an analogous language, we likewife feel in a confiderable meafure the defects to which it is expofed; as the number of monofyllables with which it always muft be embarraffed, notwithfanding the great improvements. which have been made in our language fince the revival of letters in Europe, prevents in fome degree that fwelling fullnefs of found which fo powerfully contributes to harmonious dignity and graceful cadences in literary compofitions. And as the genius of the people of Britain has always been more difpofed to the rougher atts of command than to the fofter infinuations of perfuafion, no pains have been taken to correct thefe natural defects of our language; but, on the contrary, by an inattention, of which we have hardly a parallel in the hiftory of any civilized nation, we meet with many inflances, even within this laft century, of the harmony of found being facrificed to that brevity fo defirable in converfation, as many elegant words haye been curtailed, and harmonious fyilables fuppreffed, to fubltitute in their flead others, fhorter indeed, but more barbarous and uncouth. Nay, fo little attention have our forefathers beftowed upon the harmuny of founds in our language, that one would be tempted to think, on looking back to its primitive ftate, that they had on fome occafions ftudioufly dcbafed it. Our language, at its frit formation, lecms to have laboured under a capital defect in point of
found, as fuch a number of S's enter into the forma. Language. tion of our words, and fuch a number of letters and combinations of other letters affume a finilar found, as to give a general hifs through the whole tenor of our language, which mult be exceedingly difagrecable to every unprejudiced ear. We would thereforc have naturally expected, that at the revival of letters, when our forefathers became acquainted with the harmonious languages of Greece and Rome, they would have acquired a more correct tafte, and endeavoured, if poffible, to dimininh the prevalence of this difgufting found. But fo far have they been from thinking of this, that they bave multiplied this letter excecdingly. The plurals of almoft all our nouns were originally formed by adding the harmonious fyllable ers to the fingular, which has given place to the letter $s$; and inflead of houfen formerly, we now fay houfes. In like manner, many of the variations of our verbs were formed by the fyllable eth, which we have likewife changed into the fame difagreeable letter; fo that, inftead of loveth, moveth, writeth, walketh, \&c. we have changed them into the more modilh forms of loves, moves, writes, walks, \&c. Our very auxiliary verbs have fuffered the fame change; and inftead of hath and doth, we now make ufe of has and does. Frons thefe caufes, notwithflanding the great improvements which have been made in language, within thefe few centuries, in other refpects; yet, with regard to the pleafingnefs of found alone, it was perhaps much more perfect in the days of Chaucer than at prefent; and although cuftom may have rendered thefe founds fo familiar to our ear, as not to affect us much; yet to an unprejudiced perfon, unacquainted with our language, we have not the fmalleft doubt but the language of Bacon or Sidney would appear more harmonious than that of Robertfon or Hume. This is indeed the fundamental defect of our language, and loudly calls for reformation.

But notwithfanding this great and radical defect with regard to pleafingnefs of founds, which mult be fo ftrongly perceived by every one who is unacquainted with the meaning of our words; yet to thofe who underftand the language, the exceeding copioufnefs which it allows in the choice of words proper for the occafion, and the nervous force which the perfipicuity and graceful elegance the emphafis beftows upon it, make this defeat be totally overlooked; and we could produce fuch numerous works of profe, which excel in almof every difficrent flyle of compolition, as would be tireforse to cnumerate : every reader of tafte and difcernment will be able to recollect a fufticient number of writings which excel in point of fyle, between the graceful and becoming gravity fo confpicu. ous in all the works of the author of the Whole dury of Man, and the animated and nervous diftion of Robertfon in his Hiltory of Charles the Fifth,--the more flowery ftyle of Shaftefbury, or the Attic fimplicity and elegance of Addifon. But although we can equal, if not furpafs, every modern language in wotks of profe, it is in its poetical powers that our language flines forth with the greateft luftre. The brevity to which we mult here neceffarily confine ourfclves, prevents us from entering into a minute cxamination of the poetical powers of our own, compared with othe: languages; otherwife it would be eafy to how, that

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Sanguzge. erery other modern language labours under great reftraints in this refpect which ours is freed from ;--that our language admits of a greater variety of poetic movements, and diverfity of cadence, than any of the admired languages of antiquity; that it diftinguifhes with the greatef accuracy between accent and quantity, and is poffeffed of cvery other poetic excellence which their languages were capable of: fo that we are poffiefled of all the fources of harmony which they could boaft; 'and, befides all thefe, have one fuperadded, which is the caufe of great variety and more forcible expreflion in numbers than all the reft; that is, the unlimited power given by the emphafis over quantity and cadence; by means whereof, a necelfary union between found and fenie, numbers and meaning, in verfification, unknown to the ancients, has been brought about, which gives our language in this refpect a fuperiority over all thofe jufly admired languages. But as we cannot here further purfue this fubject, we thall only obferve, that thefe great and diftinguifhing excellencies far more than counterbalance the inconveniences that we have already mentioned: and although, in mere pleafantnefs of lounds, or harmonious flow of fyllables, our language may be inferior to the Greek, the Latin, Italian, and Spanifh; yet in point of manly dignity, graceful variety, intuitive diftinctnefs, nersous energy of expreffion, unconfrained freedom and harmony of poetic numbers, it will yield the palm to none. Our immortal Milton, flowiy rifing in graceful majefty, flands up as equal, if not fuperior, in thefe refpects, to any poet, in any other language, that ever yet exited;-while Thomfon, with more humble aim, in melody more fmooth and Howing, foftens the foul to harmony and peace :-the plaintive moan of Hammond calls forth the tender tear and fympathetic figh; while Gray's more foothing melancholy fixes the fober mind to filent contem-plation:-more tender fill than thefe, the amiable Shenflone ccmes; and from his Doric reed, ftill free from courtly affectation, flows a frain fo pure, fo fimple, and of fuch tender harmony, as even Arcadian mepherds would be proud to own. But far before the reft, the daring Shakefpeare fteps forth confpicuous, clothed in native dignity; and, preffing forward with unremitting ardour, boldly lays claim to both dramatic crowns held out to him by Thalia and Mel-pomene:--his rivals, far behind, look up, and envy him for thefe unfading glories; and the aftonifhed nations round, with diftant awe, behold and tremble at his daring dight.-TTus the language, equally obedient to all, bends with eafe under their hands, whatever form they would have it affurne; and, like the yielding wax, readily receives, and faithfully tranlmits to pofterity, thofe improffious which they have flamped upon it.

Such are the principal outlines of the language of Great Britain, fuch are its beauties, and fuch its moft capital defects; a language more peculiarly circumftanced than any that has ever yet appeared.-It is the language of a great and powerful nation, whofe fleets furround the g'obe, and whofe merchants are in cvery port; a people almired or revered by all the worl.: :-and : ot it is lefs known in every foreign country than masy of the nther languages in Europe. In it are written more perfect treatifes on every art and
fcience than are to be found in any other language; - Langua yet it is lefs fought after or efteemed by the literati in any part of the globe than almoft any of thefe. Its fuperior powers for cvery purpofe of language are fufficiently obvious from the models of perfection in almoft every particular which can be produced in it :yet it is neglected, defpifed, and vilified by the people who ufe it; and many of thofe authors who owe almof the whole of their fame to the excellence of the language in which they wrote, look upon that very language with the higheft contempt. Neglected and defpifed, it has been trodden under foot as a thing altogether unworthy of cultivation or attention. Yet in fpite of all thefe inconveniences, in fpite of the many wounds it has thus received, it ftill holds up its head, and preferves evident marks of that comelinefs and vigour which are its charasteriftical diffinction. Like a healthy oak planted in a rich and fertile foil, it has fprung up with vigour: and although neglected, and fuffered to be overrun with weeds; although expofed to every blaft, and unprotected from every violence ; it Atll beareth up under all thele inconveniences, and floots up with a robuft healthinefs and wild luxuriance of growth. Should this plant, fo found and vigorous, be now cleared from thofe weeds with which it has been fo much encumbered;-mhould every obftacle which now buries it under thick fhades, and hides it from the view of every paffenger, be cleared away;-Thould the foil be cultivated with care, and a Arong fence be placed around it, to prevent the idle or the wicked from breaking or diftorting its branches; who can tell with what additional vigour it would flourih, or what amazing magnitude and perfection it might at laft attain!-How would the aftonifhed world behold, with reverential awe, the inajeftic gracefulnefs of that object which they fo lately defpifed!

Beauty of Language conjdered in regard to Compofation. The beauties of language may be divided into three clafles: 1. Thofe which arife from found; 2. Thofe which refpeet lignificance; 3. Thofe derived from a refemblance between found and Gignification.
I. With refpect to found. In a curfory view, one Elements: would imagine, that the agreeablenefs or difagreeable- Critioifn nefs of a word with refpect to found, hhould depend upon the agreeablenefs or difagreeablenefs of its component fyllables: which is true in part, but not entirely; for we mult alfo take under confideration the effect of fyllables in fucceffion. In the firt place, Syllables in immediate fucceffion, pronounced each of them with the fame, or nearly the fame, aperture of the month, produce a fucceffion of weak and feeble founds; witnefs the French words dit il, pathetique: on the other hand, a fyllable of the greateft aperture fucceeding one of the fmalleft, or the contrary, makes a fuccelfion which, becaufe of its remarkable difagreeablenefs, is diffinguifhed by a proper name, viz. liatus. The mof agreeable fuccelfion is, where the cavity is increafed and diminithed alternately, within moderate limits: examples, Alternative. Longevity, pufillanimous. Secondly, Words confiliting wholly of fyllables pronounced flow, or of fyllables oronounced quick, commonly called Iong and fiort fyllables, have little melody in them; witnefs the words peritioner, fruiterer, dizzinefs; on the other hand, the intermixture of long and thort fyllables is remarkably agree-

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ungc-able; for crample, des, ree, repen:, wonderful, altiuude, rapidity, indepintent, impetwofry; the caule of which is explained in Pofrry, Part II.

To proceed to the mufic of periocs. As the arrangement of words in fucceltion, fo as to affiord the greatelt pleafure to the ear, depends on principles remote from common view, it will be necellany to premife fome general obfervations upon the appearance that objects make when placed in an increafing or decreafing feries; which appearance will vary according to the prevalence of refemblance or of contran. Where the objects vary by frmall differences fo as to have a mutual refemblance, we in afeending conceive the fecond object of no greater fize than the frit, the third of no greater fize than the fecond, and fo of the relt ; which diminiheth in appearance the fize of every object except the firt : but when beginning at the greateft object, we proceed gradually to the leatt, refemblance makes us imagine the fecond as great as the firth, and the third as great as the fecond; which in appearance magnifies every nbject except the firt. On the other hand, in a feries varying liy large differences, where contralt prevails, the effects are directly oppofite: a great object fucceeding a fmall one of the fame kind, appears greater than uliual; and a little object fucceeding one that is great, appears lefs than ufual $\pm$. Hence a temarkable pleafure in viewing a leries afcending by large differences; directly oppofite to what we feel when the differences are fmall. The lealt object of a feries afcending by large differences has the fame effect upon the mind as if it flood lingle without making a part of the feries: but the fecond object, by means of contraft, appears greater than when viewed fingly and apart; and the effect is perceived in afcending progreflively, till we arrive at the laf object. The oppofite effect is produced in defcending; for in this direction, every object, except the fitt, appears lefs than when viewed feparately and independent of the feries. We may then aflume as a maxim, which will bold in the compofition of language as well as of other fubicets, That a ftrong impulfe fucceeding a weak, makes a double impreflion on the mind; and that a weak impulfe fucceeding a ftrong, makes fcarce any imprefion.

After effablining this maxim, we can be at no lofs about its application to the fubject in hand. The following rule is laid down by Diomedes $\uparrow$. "In verbis obfervandum elt, ne ì majoribus ad minora defcendat oratio; melius enim dicitur, Vir of optimus, quam, Vir optinues efl." This rule is allo applicable to entire members of a period, which, according to our author's expreffion, ought not, more than fingle words, to proceed from the greater to the lefs, but from the lefs to the greater. In arranging the members of a period, no writer equals Cicero: The following examples are too beautiful to be flurred over by a reference.

## Quicum ๆuæfor fueram,

Tuicum me fors confueturlonue majorum,
Quicum me deorum hominumque judicium conjuxerat.

## Again :

Hahet honorem ģuem petimus,
Habet fpem quam preppofitam nobis habemus, rol. XI. Part If.

Habet exillimationern, multo fudore, labore, vigi- L...g....se, liifque, collcciam.
Again:
Fripite-nos ex miferiis,
Eripite nos es fucicus corum,
Quorum crudelitas noitro fanguine non poter expleri. De Oratore, lib. i. \$ 52.
Ithis order of words or members gradually increaling in length, may, to fir as concerns the pleature of found, be denominated a climax in found.

Wiith refpect to the mulic of periods as united in a difcourle, this depends ehielly on pariety. Hence a rule tor arranging the mombers of dificrent petinds with relation to tach otber; ' liat to avid a tedions uniformity of fonnd and cadence, the arrangement, the cadence, and the length of the members, ought to be diverlified as much as poffible: and if the members of different periods be fufficiently diverlified, the periods themicives will be equally fo.
11. With refpect to fignification. The beauties of language with refpect to lignificalion, may not improperly be ditinguifhed into two kinds: firft, the beauties that arife from a right choice of words or materials for conftructing the period; and next, the beauties that arile from a due arrangement of thefe words or materials.

1. Communication of thought heing the chief end of language, it is a rule, That perpicuity ought not to be facrinced to any cther beauty whatever. Nothing, therefore, in language ought more to be lludicd, than to prevent all obfcurity in the expreflion; for to have no meaning, is but one degree worfe than to have a meaning that is not underftood. We thall here give a few examples where the obfcerity arifes from a wrong choice of words.

Livy, fpeaking of a rout after a battle, "Multique in ruina majore quam fuga opprelli oleruncatique." This author is frequently oblcure by exprelling but part of his thought, learing it to be completed by his reader. His defcription of the fea fight, lib. 28. cap. 30. is estiemely perplexed.

Unde tibi reditum cerio fultemine Parcx Rupere.

Hurat.

$$
\begin{aligned}
& \text { Qui perfiepe cava tefudine flevit amorem, } \\
& \text { İon elaboratum ad pedem. }
\end{aligned}
$$

Me fabulofe Vulture in Appulo,
Altricis extra limen Apuliee, Ludo, fatigatumque fomno, Fronde nova puerum palumbes

## Texere.

Puræ rivus aquæe, filvaque jugerum
Paucorum, et fegetis certa fides neez,
Fulgentem imperio fertilis $A$ frica
Fallit forte beatior.
Cum fas atque nefas exiguo fine libilinum Difcernunt avidi.
Ac fpern fronte ferenat. Virg.
The rule next in order is, That the language ought

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Language to correfou: 1 to the fubject : heroic actions or fentiments require elevated language; tender fentiments onght to be exprefeal in words foft and Howing; and plain language, soid of ornament, is adapted to fubjects grave and didactic. Language may be confidered as the dref; of thought ; and where the one is not fuited to the other, we are fenfible of incongruity, in the tame manner as where a judge is drefled like a fop, or a peafant like a man of quality. Where the impreflion made by the words refembles the imprefion made by the thought, the fimilar emotions mix fweetly in the mind, and double the pleafure; but where the impreflions made by the thought and the words are difimilar, the unnatural union they are forced into is difagrceable.

This concordance between the thought and the word lias been obferved by every critic, and is fo well underllood as not to require any illullration. But there is a concordance of a peculiar kind that has farcely been touched in works of criticifm, though it contribetes to neatnefs of compofition. It is what fulluws.

In a thought of any extent, we commonly find fome parts intimately united, fome fightly, fome disjoined, and fome directly oppofed to each other. To find thefe conjunctions and disjunctions imitated in the expreffion, is a beanty ; becaufe fuch imitation makes the words concordant with the fenfe. This doctrine may be il. luftrated by a familiar example: When we have occafion to mention the intimate connexion that the foul hath with the body, the exprefion ought to be, the foul and body; becaufe the article the, relative to both, makes a connexion in the expreffion, refembling in fome degree the connexion in the thought: but when the foul is difinguifhed from the body, it is better to las the foul and the body; becaufe the disjunction in the words refembles the disjunction in the thought. We proceed to other examples, beginning with conjunciions.
"Conflituit agmen; et expedire tela animofque, equitibus juffis," \&c. Livy, lib. 38. § 25. Here the words that esprefs the connected ideas are artificially connected bef fubjecting them both to the regimen of one verb. Lind the two following are of the fame kind.
"Quum ex paucis quotidie aliqui eorum caderent aut ixInerarentur, et qui fuperarent: feffi et corporibus et animis eflent, \&c. Ibid. § 29.

Poft acer Mneftheus adducto conftitit arcu, Alta petens, pariterque oculos telumque tetendit.

Fineid, v. 507.
But to juftify this artificial connexion among the words, the ideas they exprefs ought to be intimately connected; for otherwife that concordance which is sequired between the fenfe and the expreflion will be impaired. In that view, the following paffage from Tacitus is exceptionable; where words that tignify ideas very little connected, are however forced into an artificial union. "Germania omnis à Gallis, Rhatiifque, et Pannoniis, Rheno et Danubio tluminibue; à Sarmatis Dacifque, mutuo metu aut montibus feparatur."

Upon the fame account, the fullowing paffage feems squally exceptienable.

> The fiend lock'd up, and kne:s His mounted fale aloft; nor more, but ded Murm'ring, and with him fled the llades of night. Paradife Loff, book iv. at the en.t. There is no natural connection between a parfon's flying or retiring, and the fucceffion of daylight to darknefs; and therefore to connect artificially the terms that fignify thefe things cannot have a fweet effect.

Two members of a thought connected by their relation to the fame action, will naturaily be exprefied by two members of the period governed by the fame verb; in which cafe thefe members, in order to improve their connegion, ought to be comftructed in the fame manner. This beatuy is fo common among good wrieers as to have been little attended to; but the negleEt of it is remarkably difagreeable: for example, "He did not mention Leonora, nor that her father was dead." Better thus: "He did not mention Leonora, nor her father's dcath."

Where two ideas are fo connected as to require but a copulative, it is pleafant to find a comnexion in the words that exprefs thefe ideas, were it even fo light as where both begin with the fame letter. Thus,
"The peacock, in all his pride, does not difiplay half the colour that appears in the garments of a Britilh lady, when the is either drelled for a ball or a birthday." Spect.
"Had not my dog of a fleward run away as he did, without making up his accounts, I had ftill been im. merfed in fin and fea-coal." Ib.

Miy life's companion, and my bofom friend,
One faith, oue fame, one fate flall both attend.
Dryden, Tranflation of Aneid.
Next, as to examples of disjunction and oppofition in the parts of the thought, imitated in the expreflion; an imitation that is diltinguithed by the name of antithicfis.

Speaking of Coriolanus foliciting the prople to be made conful:

With a proud heart he wore his humble weeds.
Coriolanus.
"Had you rather Cexfar were living, and die all flaves, than that Cæfar were dead, to live all free men ?"

Yylius Carar.
He hath cool'd my friends and heated mine enemies. Shakespearl:
An artificial connecion among the words, is undoubtedly a beauty when it reprefents any peculiar connection among the conflituent parts of the thought ; but where there is no fuch connection, it is a pofitive deformity, becaufe it makes a difcordance between the thought and expreffion. For the fame reafon, we ought alfo to avoid every artificial oppofition of words where there is none in the thought. This laft, termed verbal antitheff, is fludied by lorr writers, becaufe of a certain degree of livelinefs in it. They do not confider how incongruous it is, in a grave compofition, to cheat the reader, and to make him expect a contraf in the thought, which upon examination is not found there.

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ange. A fault discelly oppofite to the laft mantioned, is to conjoin artificially words that exprefs ideas oppoled to cach othcr. This is a fault too grofs to be in comman pracice; and yet writers are guilty of it in fome cegree, when they conjoin by a copulative things tranfated at different periods of time. Hence a want of neatnefs in the following expreffiun: "The nobility too, whom the king had no means of retaining by fuitable offices and preferments, had been feized with the general difcontent, and unwarily threw themfelves into the fcale which began already tou much to preponderate." Hume. In periods of this kind, it appears more neat to exprefs the paft time by the participle paffive, thus: "The nobility having been feized with the general difontent, unwarily threw them Celves," \&c. or, "The nobility, who had been feized, \&c. unwarily threw themfelves," \&c.

It is unpleafant to find even a negative and affirmative propofition connected by a copulative :

If it appear not plain, and prove untrue,
Deadly divorce ftep between me and you.
Shakespeare.
In mirth and drollery it may have a good effect to conned verbally things that are oppofite to each other in the thought. Esample: Henry IV. of France introducing the marefchal Biron to tome of his friends, "Here, gentiemen (lays he) is the marefchal Biron, whom I freely prefent both to my friends and enem:es."

This rule of fudying uniformity between the thought and expreffion may be extended to the conflruction of fenterices or periods. A fentence or period ought to exprefs onc entire thought or mental propofition; and different thoughts ought to be feparated in the expreffion by placing them in different fentences or periodr. It is therefore offending againt neatnefs, to crowd into une period entire thoughts requiring more than one; which is joining in language things that are feparated in reality. Of errors againf this rule take the following examples:
"Behold, thou àrt fair, my beloved, yea pleafant : alfo our bed is green."

Burnet, in the hiffory of his own times, giving Lord Sunderiana's character, fays; "His own notions were always good; but he was a man of great expence."
"I have feen a woman's face break out in heats, as the has been talking againft a great lord, whom the had never feen in her life; and indeed never knew a party-woman that kept her beauty for a twelvemonth." Spet.

Lord Bolingbroke, fpeaking of Strada: " I fingle him out among the moderns, becaufe he had the foolifh prefumption to cenfure Tacitus, and to write hitory himfelf; and your lordhip will forgive this flort excurfion in honour of a favourite writer."
To crowd into a fingle member of a period different fubjects, is fill worfe thar to crowd them into one pcriod.

## Trojam genitore Adamafto <br> Paupere (mantiffetque utinam fortuna!) profeclus.

Eneidiii. 6ı4.
From conjunctions and disjunctions in gencral, we
proceed to comparifons, which make one fpecies of Langurpe. them, beginning with fimiles. And here alfo, the intimate conneaion that words have with their meanng requires, that in defcribing two refermbling obje 2 s, a refemblance in the two members of the period ought to be fudied. To begin with examples of refemblances exprefled in words that have no refemblance.
". I have obferved of late, the flyle of forme great miqiters wery much to exceed that of any other productions." Swift. Tbis, inftead of fludying the refemblance of words in a period that expreffes a comparifon, is going out of one's road to avoid it. Inftead of producitins, which refemble not minitters great nor fmall, the prope: word is arriciers or cuthors.
"I cannot but fancy, however, that this imitation, which pafies fo currently with other judgemen:s, mult at feme time or other have ftuck a little with your lordBhip." Shafief. Better thus: "I cannot but fancy, however, that this imitation, which palfes fo currently with others, muft at fome time or other have fuck a little with your lordbip."
" A glutton or mere fenfualift is as ridiculous as the other two charafters." Id.
"They wifely prefer the generous efforts of good weill and affection, to the reluctant compliances of fuc. as obey by force." Bolingb.

It is a flill greater deviation from congruity, to affect not only variety in the words, but alfo in the confruction.

Hume fpeaking of Shakefpeare: "There may remain a fufpicion that we orerrate the greatnefs of his genius, in the fame manner as bodies appear more gigantic on account of their being difproportioned and mifhapen." This is Audying variety in a period where the beauty lies in unifurmity, - Better thus: "There may remain a fulficion that we overrate the greatnefs of his genius, in the fame manner as we overrate the greatnefs of bodies that are difproportioned and mifhapen."
Nest of comparifon where things are oppofed to each other. And here it muft be obvious, that if refemblance ougbt to be ftudied in the words which ex. prefs two refembling objects, there is equal seafon for ftudying oppofition in the words which exprefs contrafted objects. This rule will be beft illuftrated by examples of deviations from it.
" A friend exaggerates a man's virtues; an enemy inflames his crimes." Spect. Here the oppofition in the thought is neglected in the words; which at firt view feem to import, that the friend and enemy are employed in different matters, without any relation to each other, whether of refemblance or of oppofition. And therefore the contraff or oppofition will be better marked by expreffing the thought as follows: " $A$ friend exaggerates a man's virtues, an enemy his crimes."
"The wife man is happy when he gains his own approbation; the fool when he recon:mends himelf to the applaufe of thofe about him." 16 . Better: "The wife man is happy when he gains his own approbation, the fool when he gains that of others."

We proceed to a rule of a different kind. During the courfe of a period, the feene ought to be continued without variation: the changing from perfon to perfon,

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$\underbrace{\text { Languige from funject to fubject, or from perion to fubject, within }}$ the bounds of a fingle pcriod, ditracts the mind, and aflords ro time for a folid imprenion.

Honk, in his Ronan hitory, Ppeahing of Eumenes, Whot had been beat to the ground witio a flone, feys, "After a tho:t time he came to himfeif; and the next day they pat him on board !is huip, which conveyed him fritt to Couinth, and thence to the illand of Rivina."

The following period is unpleafant, even by a very night deviation Irom the rule: "That fort of inftruction which is acquired by inculcating an important moral truth," \&c. This exprefion includes two perfons, ore aqquiring, and one iwulcating; and the fcene is changed without neceffity. ' $\mathrm{F}_{0}$ avoid this hlemiflo, the thought may be expreffed thus: "That fort of inflruction which is afforded by iuculcating," \&c.

The had effect of fuch a change of perfon is remarkable in the following paffage: "The Britons, daily harafled by cruel inroids from the Picts, were forced to call in the Saxons for their defence, who confequently reduced the greateft part of the illand to the r own poser, drove the Britons into the moft remote and mountainous parts, and the rof of the country, in cuf. toms. religion, and language, becane wholly Saxon." Suiff.

The following paffage has a change from fubject to perl $n$ : "This profitution of praife is not only a deceit upon the grois of mankind, who take their notion of charachers from the learned; but alfo the better fort mult by this means lofe fome part at leaft of that detire of fame which is the incentive to generous actions, when they find it promifcuoully heftowed on the meritorious and unde'erving." Guardian, N• 4.

The prefent head, which relates to the choice of marerials, thall be clofed with a rule concerning the ule of conulatives. Longinus obferves, that it animates a period to drop the copulatives; and he gives the following example from Xenophon: "Clofing their thelds together, they were puthed, they fought, they llew, they were flain." The reafon may be what follows. A continued found. if not loud, tenus to lay us afleep: an interrunted found roufes and animates by its repeated impulfes: thus feet compofed of fyllables, being pronounced with a lenfible interval between each, make more livelv imureflions han can be made by a continued found. A period of which the members are connected by comulatives, produceth an effect upon the mind approaching to that of a continued found; and therefore the fuporefing conulatives mult animate a defcription. It produres a different effect akin to that mentioned: the members of a neriod connected by proper copulatives, glide fmonthly and gently along; and are a proof of fedatenefs and leifure in the feeaker: on the other hand, nue in the hurry of paffion, neglecting copulatives and nther particles, expreffes the principal imase only; and for that reafon, hurry or quick action is bell exprefled without copulatives:

Veni, vidi, vici.
$\xi$ erte citi flammas, date vela, impellite remos.
正neid, iv. 593.

Quis glosus, O cives, caligine valvitur atra ? Ferte citi ferrum, date tela, fcandite muros.
Hoflis adelt, eja.
Eneil, ix. 37.
In this view Longinus jufily compares copulatives in a pe iod to ftrait tying, which in a race obstrucis the freedom of motion.

It follows, that a plurality of copulatives in the fame period ought to be avoided; for if the laying afids copulatives give force and livelinuts, a redundancy of them muft render the period languid. The fo lowing initance may be appealed to, though there ase but two copulatives: "Upon looking over the letters of my female correfpondents, I tind feveral from woneon complaining of jealous hubands; and at the fame time protelling their own in nocence, and deliring my advice upon this occalion." Spect.

Where the words are intended to exprefs the coldnefs of the fpeaker, there indeed tie redundancy of copulatives is a beauty :

- Dining one day at an alderman's in the city, Pete: - obferved him expatiating after the manner of his bre'thren in the praifes of his furloin of beef. "Beef " (faid the fage magiftrate) is the king of ineat : beef "comprehends in it the quinteffence of partridge, and " quail, and venifon, and pheafant, and plum pudding. " and cultard." Tale of a Tub, § 4. And the author thows great delicacy of talte by varying the expreffion in the mouth of Petcr, who is reprefented more animated: " Bread (fays he), dear brothers, is the "Itaff of life; in which bread is contained, inclufite, "the quintefience of beef, mutton, veal, venilon, pas" tridge, plum pudding, and cullard."

Another cafe mult alfo be excepted. Copulatives have a good effect where the intention is to give an impreffion of a great multitude confifting of many divilions, for example: 'The army was compofed of Grecians, and Carians, and Lyciens, and Pamphylians, and Phrygians.' 'The reafon is, that a leifurcly furvey, which is expreffed by the copulatives, makes the parts appear more numerous than they would do by a hafty furvey: in the latter cafe, the army appears in one group; in the former, we take as it were an accurate furvey of each nation, and of each Livifion.
2. To pave the way for the rules of arrangenent, it will here be neceffary to explain the difference between a naturat tyle and that where tranfpoition or inverfion prevails. In a natural fiyle, relative words ase by juxtapofition comnected with thofe to which they relate, going before or after, according to the pecyliar genius of the language. Again, a circumflance comected by a prepofition, follows naturally the word with which it is connected. But this arrangement may be varied, when a difierent order is more beautiful : a circumilanse may be placed before the word with which it is comented ty a prepofition; and may be interjecaed even between a relative word an. 1 that to which it relates. When luch liberties are frequently taken, the Ryle becomes inverted or tranfored.

But as the liberty of iuverfion is a capital point in the prefent fubject, it will be neceflary to examine it more narrowly, and in particular to trace the feveral degrees in which an inverted ityle recedes more and more fiom that which is natural. And firf, as to the
placing
placing a circumftance before the word with which it is connected, this is the eatient of all inverfion, even fo eafy as to be confiltent with a ftyle that is properly termed noturnl: witnel's the following examples.
"In the lincerity of my heart, 1 profefs," $\leqslant$.
"By our own ill management, we are brousht to So lo:r an ebo of wealth and credit, that," \&cc.
6. On Thurday murning there was little or nothing tranfacted in Change-aliev."
"At S: Bricle's church in Fleetfreet, Mr Woolfon (who wrote againit the miracles of our Saviour), in the utmoft terrors of confcience, made a public recantation."

The interjecting a circumfance between a relative word and that to which it relates, is more properly termed inverfinn; becaufe, by a disjunction nf words intimately connected, it recedes farther from a matural ftyle. But this licenfe has degrees; for the disjunction is more violent in fome cafes than in others.

In nature, though a fubject cannot exilt without its qualities, nor a quality without a lubject; yet in our conception of thefe, a material difference may be remarked. VVe cannot conceive a quality but as belong. ing to fome fubject : it makes indeed a part of the idea which is formed of the fubject. But the oppolite holds not; fur though we cannot form a conception of a fubject veil of all qualities, a partial conception may be formed of it, abifracting from any particular quality: we can, for example, form the idea of a fne $A$ rabian horfe without regard to his culour, or of a white horfe without regard to his fize. Such partial conception of a fubject is litll more ealy with refpect to action or motion, which is an occafional attribute only, and has not the fame permanency with colour or figure: we cannot form an idea of motion independent of a bo$d y$; but there is nothing more eafy thas to form an idea of a body at relt. Hence it appears, that the degree of invertion depends greatly on the order in which the related words are placed: when a fubtantive occupies the firlt place, the idea it fuggefts muft fubfill in the mind at leaft for a moment, independent of the relative words afterward introduced; and that moment may without difficulty be prolonged by interjecting a circumftance between the fubllantive and its connections. This liberty therefure, however frequent, trill fcarce alone be fufficient to denominate a fiyle inverbed. The cafe is very difierent, where the word that occupies the firf place denotes a quality or an action; for as thefe cannot be conceived withont a fubject, they cannot without greater iolence be feparated from the fubje 7 that follows; and for that realon, ever, fuch feparition by means of an interjefted circumflance belongs io an inverted fiyle.

To illuftrate this dotrine, examples are necellary. In th folluwing, the word firlt :ntroduzed does not imply a relation:

[^10]In myltic dance, not without fong, refound His praife.

Where the word firff introduced imports a relation, the disjunction will be found more viulent :

Of man's firl difobedience, and the fruit Of that forbidden tree, whofe mortal tafte
Brought death into the world, and all our wo, With lofs of Elen, till one greater Man Reftore us, and regain the blifsful feat, Sing heav'nly mufe.

## -_Upon the firm opacous globe

Of this round world, whofe firf convex divides
'The luminous inferior orbs enclos'd
From chaos and th' inroad of darknefs old,
Satan alighted walks.
With imperwous recoil and jarring found,
Th' infernal doors.
For what could elfe? to our almighty foe Clear victory, to our part lofs and rout.

Language would have no great power, were it confined to the natural order of ideas: By inverlion a thouland beauties may be compaffed, which mult be relinquithed in a natural arrangement.

Rules. 1. In the arrangement of a period, as well as in a right choice of words, the firft and great object being perfpicuity, the rule above laid down, that perfpicuity ought not to be facrificed to any other beauty, holds equally in both. Ambiguities uccafioned by a wrong arrangement are of two forts; the one where the arrangement leads to a wrong fenfe, and the other where the fenfe is lefs doubtful. The firil, being the more culpable, fhall take the lead, beginning with examples of words put in a wrong place.
"How much the imagination of fuch a prefence muft exalt a genius, we may oblerve merely from the influence which an ordinary prefence has over men." Shaft.$f$. The arrangement leads to a wrong lenfe: the adverb merely feems oy its polition to affect the precoding word; whereas it is mended to affect the following words, an ordinary prefence; and therefore the arrangement ousht to be thus: "Hoov much the imaginution of fuc's a prefence mult exalt a genius, we may o'serve from the inluence which an ordinary prefence merely has over men." [Or better],-" which even an ordinary prefence has uver men."
"Sixtus the Fourth was, if I miltake not, a great collectur of bo ks at leat." Buling. the exurevion here 'eads eviden:ly to a wrong fonle; the adverb a: leaf, ought not to be conneifed with the fis it Mive books, but ith colleane, thus: " listus the Fourth was a great cullectur at leall, uf 'jooks."

S eaking o Louis XlV. "It he wis not the greateff king, he was the bet a tor of majelly at lealf tha: ever filled a throne." ld. Hetter thus. " I" ine was nit the prreate $\mathrm{kin}_{\mathrm{n}}$, he was at leal the well ator of miefly," \&ic. his arrangeme.t remuv "he wring ... ve uccationed by the juxtapotition of maje, 7y and $a!$ lcafl.

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The following examples are of a wrong arrangenaent of menibers.
"I have confined myfelf to thofe methods for the advancement of piety, which are in the power of a prince limited like ours by a frict execution of the laws." Swift. The fructure of this period leads to a neaning which is not the author's, viz. power limited by a tricicr execution of the laws. That wrong fenfe is temoved by the following arrangement: "I have confined myfelf to thofe methods for the advancement of fiety, which, by a frict execution of the laves, are in the power of a prince limited like ours."
" 'This morning, when one of Lady Lizard's daughters was looking over fome hoods and ribhands brought by her tirewoman, with great care and diligence, 1 em ployed no lefs in examining the box which contained them." Guardian. The wrong fenfe occafioned by this arrangement, may be cafly prevented by varying if thus: "This morning, when, with great care and diligence, one of Lady Lizard's daughters was looking over fome hoods and ribbands," \&c.

A great ftone that I happencd to find after a long fearch by the fea flore, ferved me for an anchor." Swiff. One would think that the fearch was confined to the fea thore; but as the meaning is, that the great flone was found by the fea flore, the period ought to be arranged tbus: "A great none that, after a lnng fearch, I happened to find by the fea thore, ferved me for an anchor."

Next of a wrotig arrangement where the fenfe is left doubtful ; beginning, as in the formel fert, with examples of a wrong arrangement of words in a mensber.
" Thefe forms of converfation by degrees multiplied and grew troublefome." Spect. Here it is left doubtful whether the modification by degrees relates to the preceding member or to what follows: it fhould be, "Thefe forms of converfation multiplied by degree."
" Nor does this falle modefty expofe us only to fuch actions as are indifcreet, but very often to fuch as are highly criminal." $S p e c$. The ambiguity is removed by the following arrangement: "Nor does this falfe modefty expofe us to fuch actions only as are indifcreet, " \& c.
"The empire of Blefufcu is an ifland fituated to the north-eaft fide of Lilliput, from whence it is parted only by a channel of 8=0 yards wide." Suift. The ambiguity may be removed thus:-
" from whence it is parted by a channel of 800 yards wide only."

In the following examples the fenfe is left doubeful by wrong arrangement of members.

The minitler who grows le's by his elevation, hike a little fatue placed on a mighty pedefol, will always thave his jealoufy flrong about him." Bolingb. Here, fo far as can be gathered from the arrangement, it is doubtful, whether the object introduced by way of fimile relates to what goes before or to what follows. The ambiguity is removed hy the following arrangement: "The minifter who, like a little ftatue placed on a mighty pedeftal, grows lefs by his clevation, will always," \&c.

Speaking of the furerfitious practice of locking up the room where a perfon of diffingtion dies: "The
knight, feeing his havitation 'reduced to fo fulll a Largaz: compals, and himfelf in a manner thut out of his orna houfe, upon the death of his mother, ordered all the apartments to te Huag open, and cxorciled by his claplain." Spect. Better thus: "The knight, feeing his habitation reduced to fo fmall a compafs, and himfolf in a manner thut out of his own houle, ordered, upon the death of his mother, all the apartmenfs to be thung open.

Speaking of fome indecencies in converfation: "As it is impofible for fuch an irrational way of converfation to laft long among a people that make any profeffion of religion, or hhow of modefty, if the country gentlenen get into it, thicy will certainly be left in the lurch." Ib. The ambiguity vanithes in the following arrangement:___一_ the country gentlemen, if they get into it, will certainly be left in the lurch."
"And fince it is neceflary that there fhould be a perpetaal intercourfe of huying and felling, and dealing upon credit, where fraud is pervitted or connived at, or hath no lave to punifb it, the honeft deater is always undone, and the knave gets the advantage." Swift. Better thus: "And fince it is neceflary that thcre fhould be a perpetual intercourfe of buying and felling, and dealing upon credit, the honeft dealer, where frand is permitted or connived at, or hath no law to punifh it, is always undone, and the knave gets the advantage."

From thefe examples, the following obfervation will occur: That a circumftance ought never to be placed between two capital members of a period; for by fuch fituation it muft always be doubtful, fo far as we gather from the arrangement, to which of the two members it belongs: where it is interjected, as it ought to be, between parts of the member to which it belongs, the ambiguity is removed, and the capital members are kept difting, which is a great beauty in compofition. In general, to preferve members diftinct that fignify things diftinguifhed in the thought, the beft method is, to place firft in the confequent member, fome word that cannot connect with what frecedes it.

If it fhall be thought, that the objections here are too fcrupulous, and that the defef of perfpicuity is eatily fupplied by accurate punctuation; the anfwer is, That punctuation may remove an ambiguity, but will never produce that peculiar beauty which is perceived when the fenfe comes out clearly and diftinctly by means of a happy arrangement. Such infuence has this beauty, that, by a natural tranfition of perception, it is communicated to the very found of the words, fo as in appearance to improve the mufic of the period. But as this curious fubjeet comes in more properly elfewhere, it is fufficient at prefent to appeal to experience, that a period, fo arranged as to bring out the fenfe clear, feems always more mufical than where the fenfe is left in any degree doubtful.

The next rule is, That words expreffing things connected in the thought, ought to be placed as near together as poffible. This rule is derived immediately from human nature, prone in every inftance to place together things in any manner connected: where things are arranged according to their comexions, we have a fenfe of order; otherwife we have a fenfe

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of diforder, as of things placed by chance: and he naturally place words in the lame order in which we would place tiae things they fignify. 'The bad effect of a vio!ent feparation of words or members thus in-
 amples.
"For the Englih are naturally fanciful, and very ufien difored, by that gluomineis and melancholy of tempor which is fo frequent in our nation, to many will notions and vifons, to which others are not fo lian?." Spect. Here the ver'j er alfertion is, by a preiy long circumtance, violently feparated from the fubie? to whic's it refers : this makes a harth arrangement; the lefs excufable that the fault is eafly prevented by placing the circuaftance before the verb, after the following ranner: "For the Engli!h are naturally fanciful, and by that gloominefs and melancholy of temper which is fo frequent in our nation, are often difpofed to many wild notions, \&c."
"From whence we may date likenife the rivalhip of the houfe of France, for we may reckon that of Valois and that of Bourbon as one lipoa this occaion, and the houle of Aullia, that continues at this day, and has oft coft fo much blood and fo much treafure in the coarle of it." Bolingbr.
"It camot be impertinent or ridiculous therefore in fuch a country, whatever it might be in the abbot of St Real's, which was Savoy, I think; or, in Peru, under the incas, where Garcilalo de la Vega fays it was lawful for none but the nobility to ftudy-for men of all degrees to inftruct themfelves in thofe affairs wherein they may be actors, or judgers of thofe that act, or controllers of thofe that judge." Ibit.
" If Scipio, who was naturally given to women, for which aneedote we have, if i millake not, the authority of Polybius, as well as fome verfes of Nevius preferved by Aulus Ge!lius, had been educated by Olympias at the court of Plilip, it is improbable that he soould have relfored the beautiful Spaniard." $1 b i \%$

If any one have a curiofity for more fpecimens of this kind, they will be found without number in the works of the fame autbor.

A pronoun, which faves the naming a perfon or thing a fecond time, oughi to be placed as near as poffible to the name of that perfon or thing. Ihis is a branch of the foregoing rule; and with the realon there given, another occurs, viz. That if other ideas intersene, it is dificult to recal the perfon or thing by referemce.
"If I had leave to print the Latin letters tranfmitted to me from foreign parts, they would fill a yolume, and be a full defence againft all that Mr Patridge, or his accomplices of the Portugal inquifition, will be ever able to object; $u / / 0$, by the way, are the only cnemies my predictions have ever met with at home or abroad:" Better thus:_——" and be a full defence againft all that can be objected by Mr Paeridge, or his accomplices of the Portugal inquilition; who, by the way, are," \&c.
"There being a round million of creatures in human figure, thoughout this kingdom, athofe whole fubfiltence," \&c. Suiff. Better: "There being, throughout thi, kingum, a round million of creatures in human figure, whote whole fubittence", \&c.

The following rule depends on the communicatious
of cmotions to related wijects; a principle in human Language. nature that hath an extenfive operation; and we find this operation, even where the objects are not o:herwife related than by juxtapofition of the words that exprefs them. Hence, to elevatc or depneis an object, one method is, to join it in the expretion with another that is naturally high or low: witnefs the following Speech of Eumenes to the Roman fenate.
"Caufam reniendi fibi Romam fuiffe, prater cupiditaiem vifendi deos homincfque, quorum beneficio in ca fortuna :eflet, fupra quam tie optare quiden auderet, etians ut coram moneret fenatum ut Perfei conatus obviam iret." Livy. To join the Romans with the gods in the fame enunciation, is an artful ftroke of flattery, becaufe it tacitly puts them on a level.

On the other hand, the degrading or vilifying an object, is done fuccefsfully by ranking it with one that is really low: "I hope to have this entertainment $i_{i}$ readinefs for the next winter; and doubt not but it will pleare more than the opera or pupper flow." Spect.
" II nifold have been the judgemerts which Heaven from time to time, for the chaftifement of a finful people, has inflicted upon whole nations. For when the degeneracy becomes common, it is but juft the panithment thould be general. Of this kind, in our own unfortunate country, was that deifructive peftilence, whofe mortality was fo fatal as to fweep away, if Sir William Petty may be believed, five millions of Chriftian fouls, befides women and Jews." Aubuthoot.
"Such alfo was that dreadful contlagration enfuing in this famous metropolis of London, which confumed, according to the computation of Sir Samuel Moreland, I00,000 houfes, not to mention churches and ftables." Ibid.
"But on condition it might pals into a law, I would gladly exempt both lawyers of all ages, fubaltern and field officers, young heirs, dancing mailers, pick nockets, and players." Swifi.

Sooner let earth, air, fea, to chaos fall,
Nen, monkeys, lap dogs, pariots, perili all.
Rape of the Lock.
Circumflances in a period refemble fmall fones in a building, employed to fill up vacuities among thofe of a larger fize. In the arrangement of a period, luch under parts crowded together make a poor figure ; and never are graceful but when intenfuerled among the capital parts.
" It is likewife urged, that there are, by computation, in this kingdom, above 10,000 parfons, whofe rerenues, added to thofe of my lords the bithops, would fuffice to maintain, \&c. Suiff. Here two circumitances, viz. by computation, and in this kirg gdom, are crowded together unneceflarily. They make a better appearance leparated in the following manner: "It is likewife urged, that in this kingdom there are by computation, above 10,000 parfons, \&ic.

If there be room for a choice, the fooncr a circumflance is introduced, the better; becaufe circamilances are proper for that coolnels of mind, with which we begin a period as well as a volume : in the progrefs the mind warms, and has a greater relifh for matters of importance. When a circumftance is placed at the begiming of the period, or near the beginuing, the tranfition from it to the principal fubject is agrecable:

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Lariguge it is like afcending, or going upward. On the other hand, to place it late in the period has a bad effect; fur alter being engaged in the principal funject, one is with relazance bougbt down to give attention to a circuanthance. Hence evidently the preference of the following arrangement, "Whe her in any country a cibuice altogether unexceptionable has been made, feems dou tful;" before this other, " Whether a choice altogether unexceptionable has in any cuuntry been made, Sic.

For this reafon the following period is excepicmable in point of arrangement. "I liave confidered formerly, with a good deal of attention, the lubirs unon which you command me to communicate my thoughes to you "Boling. Which, with a liyht alteration, riav be improved thus: "I have formerly, with a good deal of attention, confidered the fubject," \&ic.

Swift, fpeaking of a virtuous and learned education: "And although they may be, and too often are, draun by the temptations of $y$ uth, and the opportunities of a large fortune, into fone irregularities, when they come forward into the great suorld; it is ever with relućlance and compunction of mind, becaufe their bias to virtue till continues." Better: " And although, when they come forvard into the great world, they may be, and too often," \& c.

In a!ranging a period, it is of impostance to determine in what part of it a word makes the greateft figure, whether at the beginning, during the courfe, or at the clofe. ' he breahing filence roufes the at-tel-tion, and prepares for a deep impreffion at the beginning : the beginning, however, mull yield to the cloie; which being lucceeded by a paure, affords time, for a word to make its deepell impreflion. Hence the following rule, That to give the utmoft force to a perind, it ought, if poflible, to be clofed with that word which makes the greatelt figure. The opportunity of a paure thould not be thrown away ufon accefiories, but referved for the principal object, in order that it may make a full impreffion: which is an additionat yeafon againft clofing a period without a circumfance. There are, howerer, periods that admit not fuch a ftructure; and in that cafe the capital word ought, if poflible, to be placed in the front, which next to the clofe is the molt advantageous for making an impreffron. Hence, in directing our difcourfe to a man of figure, we ought to begin with his name; and one will be fenfible of a degradation when thas rule is neglected, as it frequently is for the fake of verfe. We gise the following examples.

Integer vitx, fcelerifque purus,
Non eget Mauris jaculic, neque arcu,
Nec venenatis gravida lagittis,
Fufce, pharetra. Horat. Carm. lib. 1. ode 22.
Je'crains Dieu, cher Abner, et n'ai point d'autre crainte.
In thefe examples, the name of the perfon addreffed to makes a mean figure, being like a circumfance dlipt into a corner. That this criticifm is well frumdcd, we nced no other proof than Addifon's tranfation of the laft example.

O Abner ! I fear my God, and I fear none but him. Guardian, $\mathrm{N}^{\circ} 117$.

O father, what intends thy hand, the c:y'd, Againtl thy unty fon " What fury, O fon, Pohefles thee to bend that mortal dart Agaimk thy father's head ?

Paradifi Lnf, bookii. 1. $727 *$
Every one muft be fenfible of a dignity in the invocation at the begiming, which is not attaincd by that in the midulle. It is not meant, honever, to cenfure this nainage : on the contrary, it appears beautiful, by dilanguiling the refrect that is due to a father from that mhich is due to a fon.

The fubliance of w?lat is frid in this and the foregoing fectun, tepon the methed of arranging words in a meriud, fo as to make the deepelt imprellion with fefpect io found as well ä: remification, is comprehended in the fullowine otlesiat on: That order of words in a perind will aluas be the mont agrecable, where, without obfoming the fenfe, $t^{\dagger}$ se mot important images, the mof fonoruus words, ard the longent members, bring up the rear.

Hitherto of arranging fingle words, fingle members, and fingle circumitances. But the enumeration of many particulars in the fame period is often necelfary: and the quellion is, In what order they fhould be placed? And, firf, with refpect to the enumerating particulars of equal rank: As there is no caufe for preferring any one before the relf, it is indifferent to the mind in what order they be viewed; therefore it is indifferent in what order they be named. 2dly, If a number of ouje气ts of the fame kind, differing only in fize, are to be ranged along a fraight line, the molt agreeable order to the eve is of an increafing feries: in furveging a number of fubjects, beginning at the leaft, and proceeding to greater and greater, the mind fwells gradually with the fucceltive objects, and in its progrefs has a very fenfible pleafure. Precifely for the fame reafon, words expreffive of fuch objects ought to be placed in the fame order. The beauty of this figure, which may be termed a climax in fonfe, has efcaped Lord Bolingbrole in the firft member of the following period: "Let but one, great, brave, difinterefed, active man arife, and he will be received, followed, and almoft adored." 'The following arrangement has fenfibly a better effect: "Let but one brave, great. active, dilinterefled man arife," \&c. Whether the fame rule ought to be followed in enumerating men of differnt ranks, feems douttful: on the one hand, a number of perfo:s prefented to the eye in form of an increafint feries, is undoubtedly the mof agreeable ouder; on the other hand, in every litt of names, we fer the rerlon of the greatef dignity at the top, and defcend gradually through his inferiors. Where the purpofe is to honour the perfons named according to their rank, the latter ought to be followed: but every one who regards himlelf only, or his reader, will choofe the former order. 3 dly, As the fenfe of order directs the eye to defcend from the principal to it greateft acceffory, and from the whole to its greateft part, and in the fame order through all the parts and accellozies, till we arrive at the minuteft the fame order ought to be followed in the enumeration of fuch particulars.

When force and livelinefs of expreffion are demanded, the rule is, to fufvend the thought as long as pof-
ngrege. fible, and to bring it out full and entire at the clofe, which cannot be done but by inventing the natural arrangement. By introducing a word or member before its time, curiofity is railed about what is to follow; and it is agreeable to have our curiefity gratifed at the clofe of the period: the pleafure we feel refembies that of feeing a itroke exerted upon a body by the whole collected force of the agent. On the other hand, where a period is fo conftrufted as to admit more than one complete clofe in the ferife, the curiofity of the reader is exhaufted at the firtt clole, and what follows appears languid or fupertluous: his difappointment contributes alfo to that appearance, when be finds, contrary to expectation, that the period is not yet finilhed. Cicero, and after him Quintilizn, recommend the verb to the laft place. This method evidently tends to fufpend the fenfe till the clofe of the period; for without the verb the fenfe camot be compitete; and when the verb happens to be the capital word, which it frequently is, it ought at any rate to be the laft, according to another rule above laid down. The following period is placed in its natural order: "Were infruction an effential circumftance in epic poetry, 1 doubt whether a fingle inftance could be given of this fpecies of compolition in any language." The period thus arranged admits a full clofe upon the word compoffition; after which it goes on languidly, and clofes without force. This blemih will be avoided by the following arrangement: "Were infruction an effential circumfance in epic poetry, I doubt whether, in any language, a fingle inflance could be given of this fpecies of compofition."
"Some of our moft eminent divines have made ufe of this Platonic notion, as far as it regards the fubiffence of our palfions after death, with great beauty and ftrength of resfon." Spect. Better thus: "Some of our mofl eminent divines have, with great beauty and ftrength of reafon, made ufe of this Platonic notion," \& c.
"Mien of the bell fenfe have been touched, more or lefs, with thefe groundlefs borrors and prefages of futurity, uponfurveying the moft indifierent works of nature." 1b. Better, "Upon furveying the moft indifferent works of wature, men of the beft fenfe," \&c.
"She foon informed him of the place he was in; which, notwithtianding all its horrors, appeared to him more fweet than the bower of Mahomet, in the company of his Balfora." Guardian. Better, "She foon, \&c. which appeared to him, in the company of his Balfora, more fweet than the bower of Mahomet."

None of the rules for the compofition of periods are more liable to be abufed than thofe laft mentioned; witnefs many Latin writers, among the moderns efpecially, whofe flyle, by inverfions too violent, is rendered harth and obfcure. Sulpenion of the thought till the clofe of the period, ought never to be preferred before perfpiruity. Neither ought fuch fufpenfion to be attempted in a long period; becaufe in that cafe :Le mind is bewildered amidft a prufufion of words: a traveller, while he is puzzled about the road, relihes not the fineft profpeft : "All the rich prefents which Aftyages had given hinu at parting, keeping only fome Median horifes, in order to propagate the breed of prem in Perfia, he diflibuted among his friends whom he left at the court of Ecbatana." Traz'. of Ciyrus.

Voz. XI. Part II.
111. Beauties from a Refemblance betwech Sound and Languagr. Signification. There being frequently a ilrong rulem- $\underbrace{-}$ blance of one found to another, it will not be furprifing to Gnd an articulate found refembling one that is not articulate : thus the found of a bow arring is initated by the words that exprefs it:

The fring let fly, Tu'ang'd Joort and Sarp, like the firill lwallow's cry.

Odyfey, xxi. 449.
The found of felling trees in a wood:
Loud founds the axe, redoubling frokes on ftrokes, On all fides round the foreft hurls her oaks Headlong. Deep echoing groan the thickets brown, Then rufling, crack/ing, crajbing, thunder down.
lilad, xsiii. 144.
But when loud furges lafh the founding fhore, The hoarfe rough verfe fhould like the torrent roar.

Pope's Effay on Criticifm, 36 g .
Dire Scylla there a feene of horror forms, And here Charybdis tills the deep with florms: When the tide rufhes from her rumbling caves, The rough rock roars; tumultuous boil the waves.

Pope.

- No perfon can be at a lofs about the caufe of this beauty; it is obvioufly that of imitation.

That there is any other natural refemblance of found to fignification, mull not be taken for granted. There is no refemblance of found to motion, nor of found to fentiment. We are, however, apt to be deceived by artful pronunciation: the fame paffage may be pronounced in many different tones, elevated or humble, fweet or harh, briik or melancholy, fo as to accord with the thought or fentiment: fuch concord muit be diftinguihed from that concord between found and fenfe which is perceived in forme expreffions independent of artful pronunciation; the latter is the poet's work, the former mult be attributed to the reader. Another thing contributes till more to the deceit : in language, found and fenfe being intimately connected, the properties of the one are readily communicated to the other; for example, the quality of grandeur, of fweetnefs, or of melancholy, though belonging to the thought folely, is transferred to the words, which by that means refemble in appearance the thought that is exprelled oy then. That there may be a refemblance of atticulate founds to fome that are not articulate, is felf-evident; and that in fact there exift fuch refemblances fucceffoully employed by writers of genius, is clear from the foregoing examples, and from many others that might be given. But we nay fafely pronounce, that this natural refemblance can be carried no farther; the objects of the different fenfes differ fo widely from each other, as to exclude any refemblance: found in particular, whether articulate or inarticulate, refembles not in any degree tafte, fimell, nor motion; and as little can it refemble any internal fentiment, feeling, or emotion. But mult we then admit, that nothing but found can be imitated by found? Taking imitation in its proper fenfe, as imyorting a refemblance between two objects, the propofition mult be admitted : and yet in many pafo 3 Z
fages
$\underbrace{\text { Larguage. fages that aze not defcriptive of four l, every one muft }}$ be fenfible of a peculiar concord between the found of the words and their meaning. As there can be no doubt of the fact, what remains is to inquire into its caufe.

Refembling caufes may produce effects that have no sefemblarce; and caures that have no refemblance may produce refembling effecls. A magnificent building, for example, refembles not in any degree a heroic action ; and yet the emotions they produce are concordant, and bear a refemblance to each other. We are fill more fenfible of this refemblance in a fong, when the mufic is properly adapted to the fentiment; there is no refemblance between the thought and found; but there is the ifrongeft refemblance between the emotion raifed by mufic tender and pathetic, and that raifed by the complaint of an unfuccefsful lover. Applying this obfervation to the prefent fubject, it appears, that, in fome inilances, the found even of a fingle word makes an impreflion refembling that which is made by the thing it fignifies: witnefs the word running compofed of tiro thort fyllables; and more remarkably the words rapidity, impetuofity, precipitation. Brutal manners produce in the fectator an emotion not unlike what is produced by a harth and rough found; and hence the beauty of the figurative expreffion, rugged manners. Again, the word litle, being pronounced with a very fmall aperture of the mouth, has a weak and faint found, which makes an impreffion refembling that made by a diminutive objec. This refemblance of effects is fill more remarkable where a number of words are connected in a period: words pronounced in fucceffion make often a ftrong impreffion; and when this impreflion happens to accord with that made by the fenfe, we are fenfible of a complex cmotion, peculiarly pleafant; one proceeding from the fentiment, and one from the melody or found of the words. But the chief pleafure proceeds from having thefe two concordant emotions combined in perfect harmony, and carried on in the mind to a full clofe. Except in the fingle cafe where found is defrribed, all the examples given by critics of fenfe being imitated in found, sefolve into a refemblance of efiects: emotions raifed by found and fignification may have a refemblance; but found itfelf cannot have a refemblance to any thing but found.

Proceeding now to particulars, and beginning with thofe cafes where the emotions have the itrongeft refemblance, we obferve, firt, That by a number of fyllables in fucceffion, an emotion is fometimes raifed, extremely fimilar to that raifed by fuccefiive motion; which may be evident even to thofe who are defective in tafte, from the following fact, that the term movement in all languages is equally applied to both. In this manner, fucceflive motion, fuch as walking, running, galloping, can be imitated by a fucceffion of long er hort fyllables, or by a due mixture of both : for example, flow motion may be juflly imitated in a verfe where long fyllables prevail ; efpecially when aided by a flow pronunciation :

Illi inter fefe magna vi brachia tollunt.
Gcorg. iv. 174.
On the other hand, fivift motion is imitated by a fucceffion of fhort fyllables;

Quadiupclante putrom foritu quatit ungula cars- Lnaza pum.
Again:
Ralit iter liquidum, celeres neque commovet alas:
Thirdly, A line compofed of monofyllables makes an impreffion by the frequency of its panfes, fimilar to what is made by laborious interrupted motion :
With many a weary ftep, and many a groan,
Up the high hill he heaves a huge round flone.
OdyJey, xi. 736.
Firft march the heary mules fecurely flow; O'er hills, o'er dales, o'er craggs, o'er rocks they go.

Iliad, xxiii. ${ }_{1} 3^{8 .}$
Fourthly, The impreflion made by rough founds in fucceflion, refembles that made by rough or tumultuous motion: on the other hand, the impreffion of fmooth founds refembles that of gentle motion. The following is an example of both.
Two craggy rocks projecting to the main, The roaring winds tempeftuous rage reftrain; Within, the waves in fofter murmurs glide, And hips fecure without their haulfers ride.

Oduley, iii. 118.
Another example of the latter :
Soft is the ftrain when Zephyr gentiy blows, And the fmooth fiream in fmoother numbers flows.

Efay on Criticifm, 366.
Fifthly, Prolonged motion is exprefled in an Alexandrine line. The firf example thall be of a flow motion prolonged:
A needlefs Alexandrine ends the fong;
That, like a wounded fnake, drags its flow length along. Ib. 356 .
The next example is of forcible motion prolonged:
The waves behind impel the waves before, Wide-rolling, foaming high, and tumbling to the fhore. Iliad, xiii. 1004.
The laft fhall be of rapid motion prolonged:
Not fo when fwift Camilla fcours the plain,
Flies o'er the unbending corn, and fkims along the main.

Effay on Criticijm, 373.
Again, fpeaking of a rock torn from the brow of a mountain :
Still gathering force, it fmokes, and urg'd amain,
Whirls, leaps, and thunders down impetuous to the plain.

Iliad, xiii. 197.
Sixthly, A period confifting mofly of long fyllables, that is, of fyllables pronounced low, produceth an emotion refembling faintly that which is produced by gravity and folemnity. Hence the beauty of the following verfe :

## Olli fedato refpondet corde Latinus.

It refembles equally an object that is infipid and uninterelting.

Tædet quotidianarum harum formarum. Terence.

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inguage. Seventhly, A now fucceftion of ideas is a circum-$\underbrace{-}$ Itance that belongs equally to fottled melancholy, and to a period compoled of polyfyllables pronounced flow; and hence, by fimilarity of emotion, the latter is imitative of the former :

In thofe deep folitudes, and awful cells, Where heav'nly penfive Contemplation dwells, And ever-mufing Melancholy reigns. Pore, Eloifa to Abelard.
Eighthly, A long fyllable made fhort, or a flort fyllable made long, raifes, by the difficulty of pronouncing contrary to cultom, a feeling fimilar to that of hard labour:

When Ajax ftrives fome rock's vaft weight to throw, The line too labours, and the words move flow.

Effay on Criticim, $37^{\circ}$.
Ninthly, Harlh or rough words pronounced with difficulty, excite a fceling fimilar to that which proceeds from the labour of thought to a dull writer.

Jult writes to make bis barrennefs appear,
And ftrains from hard-bound brains eight lines a year. Pope's Epifle to Dr Arbuthot, 1. 18 I .
We thall clofe with one example more, which of all makes the fineft figure. In the firlt fection mention is made of a climax in found; and in the fecond of a climax in fenfe. It belongs to the prefent fubject to obferve, that when thefe coincide in the fame paffage, the concordance of found and fenfe is delightful : the reader is confcious of pleafure not only from the two climaxes feparately, but of an addlitional pleafure from their concordance, ard from finding the Tenfe fo juifly imitated by the found. In this refpect, no periods are more perfect than thofe borrowed from Cicero in the firf fection.

The concord between fenfe and found is not lefs agreeable in what may be termed an anticlimax, where the progrefs is from great to little; for this has the effect $t o$ make diminutive objects appear ftill more diminutive. Horace affords a friking example :

## Parturiunt montes, nafcitur ridiculus mus.

The arrangement here is fingularly artful: the firft place is occupied by the verb, which is the capital word by its fenfe as well as found : the clofe is referved for the word that is the meanelt in fenfe as well as in found: and it mult not be overlooked, that the refembling founds of the tro laft fyllables give 2 ludicrous air to the whole.

In this article we have mentioned none of the beauties of language but what arife from words, taken in their proper fenfe. Beauties that depend upon the metaphorical and figurative power of words, are treated under the feparate articles of Figuris, Personification, Apostrophe, Hyperbole, Metaphor, \&c. See alfu Oratory.

Purity of Language. Both the Greeks and Romans were particularly careful of preferving the purity of their language. It feems amongt the Romans to have been a point which they thought worthy the attention of the fate itfelf; for we find the Cumeans not daring to make ufe of the Latin language in their
public afts without having firit obtained leave in form. Largued Tiberius himfelf would not hazard the word manopolium in the fenate without making an excufe for employing a foreign term. Senecz gives it as a certain masim, that wherever a general falfe tafe in fyle and expreffion prevails, it is an infallible fign of corruption of manners in that people : A liberty of introducing obfolete words, or forming new ones, is a mark, he thinks, of an equal licentioulnefs of the moral kind. Accordingly it is obferved, there are farce more than eight or ten inftances of new words to be produced from the molt approved Roman writers, in tlee cour?c of two or three centuries. If this mode of reafoning concerning the morals of the fate was introduced and applied in our own country, no nation on the face of the earth could appear more abandoned; for no nation is more fond of adopting new words; though our language is fufficiently copious. This delicacy of Seneca appears to be carried a little too far, and his manner of eftimating the morals of the people mult be a little fallacious. The Greeks were very remarkable for their difcernment of provincialifms, efpecially the Athenians, whofe dialect was inconceivably fireet and elegant.

LANGUED, in heraldry, expreffes fuch aninuals whofe tongue, appearing out of the mouth, is borne of a different colour from the relt of the body.

LANGUEDOC, 2 large and maritime province of France; bounded on the north by Quercy, Rouerque, Auvergne, and Lionnois; on the ealt by Dauphiny and Provence ; on the weft by Gafcony; and on the fouth by the Mediterranean fea and Rouflillon. It is 225 miles in length, and 100 in breadih where broadeft. It forms the departments of what are now called Aude, Gard, Upper Garonne, and Herault. The clergy are more rich and numerous here than in the reft of France, there being three archbifhops and 20 bihops. Languedoc is divided into the Upper and Lower; and in general it is a very pleafant country, fertile in corn, fruits, and excellent wines; and the inhabitants carry on a confiderable trade. There are many curious me. dicinal plants, with iron mines, quarries of marble, and turquoife itone. There is alfo a great deal of kelp, and on the beaths are confiderable numbers of the kermes oak. The principal rivers are the Rhone, the Garonne, the Aude, the Tarne, the Allier, and the Loire. There are alfo a great number of mineral fprings. Thouloule is the capital town. This province is famous for the roynl canal, which runs through it, joining the Mediterranean with the Atlantic ocean. This canal was undertaken in 1666 , and finifhed in 1680 ; the mathematician who undertook it made a bafon 400 yards long, 300 broad, and 7 feet deep, which is always kept full of water, and may be let out by means of a fluice on the fide of the Mediterranean, as well as by another on the fide of the Atlantic.

LANGUET, Hubert, born at Viteaux in Burgundy in 1518, gained great reputation by his learning and virtue in the r6th century. Having read one of Melancthon's books at Bologna, he conceived is high an efteem for the author, that he went to Wirtemberg purpofely to vifit him; he arrived there in 1549, when he contrakted a Erict friendfhip with Melancthon, and embraced the Proteltant religion. In 35 万5, he was one of the firt counfellors of Augultue 322 cleior

Languet.

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Languet elector of Saxony, who employed him in feveral important affairs and negociations. He was afterwards admitted to the confidence of William prince of Orange; and died at Antwerp on the 30th of September 1581. We have many of his letters written in Latin to Sir Philip Sydney, to Camerarius the father and fon, and to Auguftus elector of Saxony, which have been feveral times reprinted, in three volumes; and there is alfo attributed to him a famous treatife, entitled, Vindicice contra Tyrannos, and other works. His life is written by Philibert de la Mare.

Languet, John-Baptift-Jofeph, the celebrated vicar of St Sulpice at Paris, and a doctor of the Sorbonne, was born at Dijon in 1675. He was reccived into the Sorbonne in 1698 ; and attached himfelf to the community of St Sulpice, to which parith he was of great fervice. M. de la Chetardie the vicar, confcious of his talents, chofe him for his curate, in which capacity he officiated near ten years; and in 1714 fucceeded to the vicarage. His parih church being imall and out of repair, he conceived the defign of building a church fuitable to the fize of his parifh, which he began with the fuin of 100 crowns, but foon obtained confiderable donations; and the duke of Orleans, regent of the kingdom, granted him a lottery, and laid the firft ftone of the porch in 1718 . It was confecrated in 1745, after M. Languet had fpared neither labour nor expence to render it one of the fineft churches in the world both for architecture and ornament. Another work which did him no lefs bonour was the Maifon de l'enfant Jefus. This eltablifhment confitts of two parts; the firlt compofed of about 35 poor ladies of good families, and the fecond of more than 400 poor women and children of town and country. The order and economy in this houfe, for the education and employment of fo many perfons, gave Cardinal Fleury fo high an idea of the vicar of St Sulpice, that he propofed to make him fuperintendant general of all the hofpitals in the kingdom; which, however, was declined. Never man took more pains than he did to procure charitable donations and legacies, which he diftributed with admirable difcretion : he is faid from good authority to have difburfed near a million of livres to the poor annually. When there was a general dearth in 1725 , he fold, in order to relieve the poor, his houlehold goods, pictures, and fome curious pieces of furniture that he had procured with elifficulty; and when the plague raged at Marfeilles, he fent large fums into Provence for the relief of the diftreffed. M. Languet was not only fingular in this warm, difinterefled, benevolent conduct, but alfo in another circumftance equally sare; and this was in the refulal of feveral bifhoprics that were offered him : he refigned even his vicarage in 1748 ; but continued to preach every Sunday at his own parih church, and to fupport the Maifon de l'enfant Jefus, to his death, which happened in 1750 . It is obferved, that his piety and charity did not proceed from poverty of talents; for he was fenfible and lively in converlation, and his genius often difcovered itfelf in his agreeable repattees.

LANGUOR, among phyficians, fignifics great weaknefs and lofs of ftrength, attended with a dejection of mind; fo that the patients can fcarce walk or even ftand upright, but are apt to faint away.

LaNHAM. See Lavenham.

LANIARD (from Lanier, Fr.), a fhort piece of Lania cord or line faftened to feveral machines in a lhip, and ferving to fecure them in a particular place, or to manage them more conveniently. Such are the laniards of the gun port, the laniard of the buoy, the laniard of the cat hook, \& c.-The principal laniards ufed in a hhip, however, are thole employed to extend the throuds and fays of the mafts by their communication with the dead eyes, fo as to form a fort of mechanical power refembling that of a tackle. Thefe laniards are fixed in the dead eyes as fullows: one end of the laniards is thruft through one of the holes of the upper dead eye, and then knotted, to prevent it fromdrawing out; the other is then palled through one of the holes in the lower dead eye, whence, returning upward, it is inferted through the fecond hole in the upper dead eye, and next through the fecond in the lower dead eye, and finally through the third holes in both dead eyes. The end of the laniard being then directed upwards from the loweft dead cye, is tlretched as fliff as pollible by the application of tackles; and that the feveral parts of it may flide with more facility through the holes of the dead eyes, it is well fmeared with hog's lard or tallow, fo that the ftrain is immediately communicated to all the turns at once.

LANIGEROUS, an appellation given to whatever bears wool.
L. ANISTA, in antiquity, is fometimes ufed to fignify an cxecutioner; but nore frequently for a mafter gladiator, who taught the ufe of arms, and had always people under him ready to exhibit fhows of that hind. For this purpole, they either purchafed gladiators, or educated children in that art that had been expofed.

LANIUS, the Shrike, or Butcher Bird, a genus of birds belonging to the order of accipitres. Sec Ornithology Index.
L.ANNER, or Lannar. See Falco, OrnitholoGy Index.

LANSDOWNE, Lord. See Granville.
L. ANSQUINE'T, the name of a game at cards, of French origin.

It may be played at by any indifcriminate number of people, though a fingle pack of cards is ufed during the deal. The dealer, who poffelfes an advantage, fhufthes the cards, and after they have been cut by another of the party, deals out two cards on his left hand, turning them up, then one for himfelf, and a fourth that he places on the table for the company, which is called the rejouiffance. On this card any, or all the company, the dealer excepted, may put their money, which the dealer is compelled to anfwer. The dealer continues turning the cards upwards, one by one, till two of a fort come up, that is to fay, two aces, two deuces, \&c. which, to prevent miftakes, or their being confidered as fingle cards, be places on each fide of his own card; and as often as two, three, or the fourth fort of a card come up, he invariably places, as before mentioned, on each fide of his own card. 'The company has a right to take and put money upon any fingle card, unlefs the dealer's card ffould happen to be double, which is often the cafe, by his card being the fame as one of the two handcards, which he firft dealt out on his left band: thus he continues dealing till he brings either their cards

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antana, or his own. Whila the dealer's own card remains undrawn, he wins; and whichever card is turned up firl,
lofes. If he deals out the two cards on his left hand, which are fyled the hand-card's, before his own, he is entitled to deal again. 'This adrantage amounts to no more than his being exempted from lofing, when he turns up a fimilar card to his own, immediately after he has turned up one for himfelf.

Lanfquinet is often played without the rejouifance, the denler giving every one of the party a card to put their money upon. It is alio often played by dealing ouly two cards, one for the company and the other for the dealer.
It thould likewife be obferved, that a limitation is generally fixed for the fum to be placed upon any card or number of cards, either in gold or filver, beyond which the dealer is not obliged to anfiver.

Lantana, or Indian sage, a genus of plants belonging to the didynamia clafs; and in the natural method ranking under the 4 th order, Perfonate. See Botany Index.

LANTERN, or Lanthorx, a device to casry a candle in ; being a kind of cover ufually made of white iron, with fahes of fome traníparent matter, as glafs, horn, \&ce. to tranfmit the light.

Sir George Staunton informs us that fome of the Chinefe lanterns were entirely made of horn, fo vely thin and tranfparent that they were at frrlt taken for glafs, to which they prefer it as being cheaper, lefs liable to accident, and more eafily repaired. Thofe which Sir George lad the opportunity of examining, confifted of one uniform piece of horn, the feams being made invitible by an art found out by the Chinefe. The horns commonly ufed are thofe of heep and goats, which being bent by immerfing them in boiling water, are cut open and fiattened, alter which they are ealily feparated into two or three thin plates. To make thefe laminæ or plates join readily, they are expofed to the penetrating heat of feam till they are perfectly foft, and the edges that are to lap over each other are fcraped and innted off, fo that the joinings may be no thicker than any other part of the plate.

Such lanterns would be extremely proper for military flore-houles; and Rochou of the National Inflitute was defired to attempt to make them for the marine Hore-houfes of France. While he was thus engaged, it occurred to him that he might fupply the urgent neceffities of the navy without horn, by filling up the internices of wire cloth with fine tranfparent glue. He fril tinned the iron wires of the fieve-cloth he made ufe of; but afterwards found it more convenient to give it a coating of oil paint to preferve it from ruft. The glue he made ufe of was procured by boiling the clippings of parchment with the air-bladders and membranes of fea-filh, not from any conviction of their fuperiority to other articles, but as being the cheapelt he could procure. To this he added the juice of garlic and cyder, in fuch proportions as he found to communicate great temacity. Into this tranfparent pure glue he plunged his wire-cloth, which came out with its interffices filled with the compound. The eafe with which lanterns made of this fubflance are repaired in cafe of accident, by a llight coating of glue, is given by the inventor as a great advantage; and according to him, they were
employed as figral lanterns in the cxpedition to lice- Line:n land.

Dark LANTERN, one with only one opening, which, Laocoon. may alfo be clofed up when the light is to be entirely hid, or opened when there is occarion for the affiftance of the light to difcover forme objeat.

Magic. Lantern, an optic machine, whereby little painted images are reprcfented fo much magnified, as to be accounted the effect of magic by the igroorant. See Dioptrics, Art. X. p. 37.

Lantern, in Architcecture, a little dome raifed over the roof of a building to give light, and ferve as a crowning to the fabric.

The term lantern is alfo ufed for a fquare cage of carpentry, placed over the ridge of a corridor or gallery, between two rows of thops, to illumine thein, like that of the Royal Exchange, London.

Lavters, on fhip board, a well known machine, of which there are many in a flip, particularly for the purpofe of direaing the courfe of other thips in a fleet or convoy; fuch are the poop and top lanterns, \& c.

Feift of Lanterns, in China, is a celebrated fcaft held on the $15^{\text {th }}$ day of the firf month; fo called from the infinite number of lanterns hung out of the houfes and flreets; which, it is faid, is no lefs than two hundred millions. On this day are expofed lanterns of all prices, whereof fome are faid to cofl 2300 crowns. Some of their grandees retrench fomewhat every day out of their table, out of their drefs, equipage, \&cic. to appear the more magnificent in lanterns. They are adorned with gilding, fculpture, painting, japanning, \&c. And as to their fize, it is extravagant; fome being from 25 to 30 feet diameter: they reprefent halls and chambers, and two or three fuch machines together would make handfome houfes; fo that in China they are able to eat, lodge, receive rifits, have balls, and act plays in a lantern. To illumine them, they fhould have bonfires; but as that would be inconvenient, they content themfelves with lighting up in them an infinite number of torches or lamps, which at a diftance have a beautiful effect. In thefe they exhibit various kinds of Phows, to divert the people. Befides thefe enormous lanterns, there is a multitude of others fmaller, which ufually confift of fix faces or lights, each about four feet high, and one and a half broad, framed in wood finely gilt and adorned; over thefe they flretch a fine tranfparent filk, curiounly painted with flowers, trees, and fometimes human figures : the painting is very extraordinary, and the colours extremely bright ; and when the torches are lighted, they appear highly beautiful and furpriing.
Lantern Fly. See Fulgora, Extovology Index.
LANUGO, the foft down of plants, like that growing on the fruit of the peach tree. Sce Hair.

LAOCOON, in fabulous hiflory, a fon of Priam and Hecuba, or according to others of Antenor or of Capys. As being prieft of Apolio, he was cominifioned by the Trojans to offer a bullock to Neptune to render him propitious. During the facrifice two enormous ferpents iffued from the fea, and attacked Laocoon's two fons who flood next to the altar. The father immediately attempted to defend his fons; but the ferpents falling upon him fqucezed hin in their complicated wreathes, and he died in the greatch agonies. This
punifhment panihment was faid to have been inflicted upon him for dilluading the Trojans to bring into the city the fatal wooder horfe which the Greeks had confecrated to Minerva，as alfo for his inpiety in hurling a javelin againft the fides of the horle as it entered within the walls．According to Hyginus，he fuffered the above punithment for his marriage againft the confent of Apollo，or，according to others，for his polluting the temple，by his commerce with his wife Antiope，before the itatue of the god．

Lacoon，in the hiftory of the arts，is a celebrated monument of Greek fculpture executed in marble by Agefander，Polydorus，and Athenodorus，the three famous artifts of Rhodes．Agefander is fuppofed to have been the father of the two latter．This remain of antiquity was found at Rome in the ruins of the palace of Titus，in the beginning of the fixteenth century， under the pontificate of Julius II．and afterwards depo－ fitcd in the Farnefe palace．Laocoon，the prieft of Apollo and Neptune，is here reprefented with his two fons，with two hideous ferpents clinging round his bo－ dy，gnawing it，and injecting their poifon：Virgil has given us the following defcription of the fact ：

> Serpens amplexus uterque
> Implicat，et miftros morfu depafcitur artus：－ Corripiunt，fpirifque ligant ingentibus，et jam Bis medium amplexi，bis collo fouamea circum Terga dati，fuperant capile et cervicibus altis．

This ftatue exhibits the moft aftoniming dignity and tranquillity of mind in the midft of the moft excruci－
${ }^{\bullet}$ Lib．sexvil c． 5 ． ating torments：Pliny＊fays of it，that it is，opus omnibus pituree et fatuarice artis，praferendum．

When Italy was overrun by the French during the late revolution，this wonderful monument of ancient art was removed along with the celebrated Apollo Belvi－ dere，\＆c．from the Vatican，where they had been feen and admired for 300 years，and placed in the Mufeum of Arts at Paris．＂A hero，fays the French account of the latter，guided by victory，drew it from the Vati－ can，and tranfporting it to the banks of the Seine，has fixed it there for ever．＂

The Laocoon，Dr Gillies + oblerves，may be re－ garded as the triumph of Grecian fculpture；fince bodily pain，the groffeft and moft ungovernable of all our paffions，and that pain united with anguifh and torture of mind，are yet expreffed with fuch propriety and dignity，as afford leflons of fortitude fuperior to any taught in the fchools of philofopliy．The horrible Alriek which Virgil＇s Laocoon emits is a proper cir－ cumfance for poetry，which fpeaks to the fancy by images and ideas borrowed from all the fenfes，and has a thoufand ways of ennobling is object：but the ex－ preflion of this hliriek would have totally degraded the ftatue．It is loftened，therefore，into a patient figh， with the eyes turned to heaven in fearch of relief．The intolerable agony of fuffering nature is reprelented in the lower fart，and particularly in the extremities of the body；but the manly breaft truggles againft calamity． The contention is fill more plainly perceived in his furrowed forehead；and his languilling paternal eye demands afillance，lefs for himfelf than for his mifer－ able children，who look up to him for help．

The groupe of the Laocnon is compofed of five pie－ ccs of marable，joined tugether with to much art and
neatnefs，that Pliny thought the whole was of one．Lood The right arm of the father，and two of the arm，of Laom the children are wanting．The deficiency is tupplied by arms moulded on the groupe in plafter of Paris．

LAODICÆA on the Lycus，in Ancient Greogra－ phy，a town of Phrygia，at firl called Dioppolis，then Rhoas．It was built by Antiochus fon of Stratonice， and called after his conlort Laodice．It was long an inconfiderable．place；but increafed toward the age of Auguftus Cæfar，after having fuffered in a fiege from Mithridates．The fertility of the foil，and the good fortune of fome of its citizens，raifed it to greatnefs． Hiero who adorned it with many offerings，left the people his heir to more than 2000 talents．After tha： benefactor followed Zeno the rhetorician；and his fon Polemo，as renowned a fophift as ever lived．This perfon flourifhed at Smyrna；but was buried here by the Syrian gate，near which were the 〔epulchres or coffins of his anceltors．Laodicea，though inland， grew more potent than the cities on the coaft，and be－ came one of the largeft towns in Phrygia．It was of ten damaged by earthquakes，and reflored by its own opulence or by the munificence of the Roman em－ perors．Thefe refources failed，and the city，it is probable，became early a fcene of suin．About the year 1097 it was poffeffed by the Turks，and fub－ mitted to Ducas general of the emperor Alexis．In 1120 the Turks facked fome of the cities of Phrygia by the Mrander，but were defeated by the emperor John Comnenus，who took Laodicra，and built anew or repaired the walls．About 1161 it was again un－ fortified．Many of the inlabitants were then killed with their bilhop，or carried with their cattle into cap－ tivity by the Turks．In 1190 the German emperor， Frederick Barbaroffa，going by Laodicza，with his army toward Syria on a croilade，was received fo kind－ ly，that he prayed on his knees for the profperity of the people．About 1196 this region with Caria was dreadfully ravaged by the Turks．The fultan，on the invafion of the Tartars in 1255，gave Laodicæa to the Romans；but they were unable to defend it，and it foon returned to the Turks．It is now totally ruined and deferted．Several remains of its ancient grandeur are，however，ftill to be feen；particularly the ruins of two theatres and an amphitheatre．－The memory of this place is confecrated in Scripture，being one of the feven churches to which St John in the Apocalypfe addreffes himfelf，commended by St Paul．

Ladicea on the fea，in Ancient Geography，ac－ cording to Strabo，was a town of Seleucis in Syria， extremely well built，with a commodious harbour．The country about it yielded great quantities of wiue．The city took its name from Laodice，nother of Seleucus the founder of it．

LAOMEDON，a king of Troy，whofe hiftory is in－ volved in fables．He was fon of tlus king of＇Troy； and married Strymo，called by forme Placia，or Leucippe，by whom he had Podarces，afterwards known by the name of Priam，and Hefione．He built the walls of Troy，and was affinted by Apollo and Nep－ tune，whom Jupiter had banifhed from heaven，and condemned to be fublervient to the will of Laomedon for one year．When the walls were finilled，Laomedon refufed to reward the labours of the gods；and foon af－ ter his territories wese laid wefte by the fea or Nep．
aou tune, and lis fubje?ls were viifed by a perience fent by Apolio. Sacritices were offered to the offended divinities; but the calamities of the Trojans increafed, and nothing could appeafe the gods, according to the words of the oracle, but annually to expofe to a fca monfter a Trojan virgin. Whenever the moniter appeared, the marriageable maidens were aftembled, and the lot decided which of them was doomed to death for the good of her country. When this calamity had continued for fise or fix years, the lot fell upon Hefione, Laomedon's daughter. The king was unwilling to part with his daughter whom he loved with uncommon tendernefs, but his refufal would irritate more itrongly the wrath of the gods. In the midft of his fear and hefitation, Hercules came and offered to dcliver the Trojans from this public calamity, if Laomedon would promife to reward him with a number of fine horfes. The king confented; but when the monfler was delltroyed, he refufed to fulfil his engagements, and Hercules was obliged to befiege Troy and take it by force of arms. Laomedon was put to death after a reign of 29 years; his daughter Hefione was given in marriage to Tclamon, one of the conqueror's attendants; and Podarces was ranfomed by the Trojans, and placed upon his father's throne. According to Hyginus, the wrath of Neptune and Apollo was kindled againil Laomedon, becaufe he refufed to offer on their altars as a facritice all the firf born of his cattle, according to a vow he had made.

LAON, a confiderable town of the Ine of France, and capital of the Laonois, with a caftlc and bilhop's fee. Its principal trade coaffifts in corn and wine; and it is very advantagcoully feated on a mountain, in E. Long. 3. 42. N. Lat. 49. 34.

LAOS, a kingdom of Alia beyond the Ganges; bounded on the north by Chima; on the eall, by Tonquin and Cochin China; on the fouth, by Cambodia; and on the welt, by the kingdom of Siam, and by the territories of the king of Ava. This country is full of forefts, and abounds in rice, fruits, and Gilh. The inhabitants are well made, robuft, of an olive complexion, and mild in their difpofition; but very fuperflitious, and much addicted to women. Their principal occupation is tilling the ground and fi.hng. The king fhows himfelf but twice a-year, and has large revenues from the elephants teeth found in his dominions. Their religion is a kind of idolatry, and much the fame as in China. Langiona is the capital town.

Lapathus, Lapethus, or Lepithus, in Ancient Grography, a town of Cyprus, about the middle of its north fide, with a port or flation for thips, and a coynominal river. It was built by a c. lony of Phennicians, according to Scylax : by Belus king of Tyre, according to Alexander Ephefius. According to Strabo, it was built by a colony of Spartans; and one of the nine kings refided here, the laft of whom was Pififtratus, who commanded the naval army of Alexander the Great. There was a temple here dedicated to Venus. The territory round it is called Lapithia by Diodorus and Ptolemy; Lapithii, the people, tainted with a degree of fatuiry; hence Lapathius denntes fatuss, (He-fychius).-Noss a village called Lanpitha; but, according to the Abbé Tariti, the longe' ald, of xtenfive in the illand. Befides the advantage of a fine lituation,
it furnithes the tell productions ia the conatey; and Lephitar, though Cyprus is in general not Tery abundart in fruit, Lapitha feems a favoured lpot in this refpect, and may be called the garden of tho itlanit.

LAPIDARY, a:1 axtificer who cuts precious flones.
The art of cutting precions ftones is of great antiquity. The French have carried this art to a very great perfection, but not in any degree fuperior to the Britith.
There are various maclines cmployed in the cutting of precious flones, according to their quality. The diamond, which is extremely hard, is cut on a whect of foft fteel, turned by a mill, with diamond duft, ternpered with olive oil, which alfo ferves to polifh it.
The oriental ruby, fapphire, and topaz, are cut on a copper wheel with diamond duft tempered with olive oil, and are polilhed on another copper wheel with tripoli and water. The hyaciath, emerald, amethyif, garnets, agates, and other flones not of an equal degree of hardnefs with the other, are cut cil a leaden wheel with fmalt and water, and polifhed on a tin wheel with tripoli. The turquois of the old and new rock, girafol, and opal, are cut and polithed on a wooden whecl with tripoli alfo.

The lapidaries of Paris have been a corporation. fince the year 1203. It is governed by four jurats, "ho fuperintend their rights and privileges, sifit the mafter workmen, take care of the matterpiece of workmanfhip, bind apprentices, and adminifler the frecdom.

Lapidary is alfo ufed for a virtuofo filled in the nature, kinds, \&c. of precious flones; or a merchant who deals in them.

Lafidari- Style, denotes the flyle proper for monemental or other infcriptions.

This is a kind of medium betreen profe and verfe; the jejune and the brilliant are here equally to be avoided. Cicero has prefcribed the rules of it: Accedat opsortet oratio varia, vehicmens, plena Jpiritus. Omniumz fentcniarum gravitate, omnium verborum ponderibus, eft utendur.

The lapidary flyle, which was lof with the ancient monuments, has been retrieved at the beginning of this age by Count Emanuel Tcforo: it is now ufed various ways at the beginning of books; and even epiftles dedicatory are compofed in it, of which we have no example among the ancients.

LAPIDESCENT, any thing which has the faculty of petrifying, or turning bodies to a fony nature. The older naturalifts fpeak of a lapidefcent principle, a lapidcicert f firit, a lapidefcent juice, \&c.

LAPIS, in general, is ufed to derote a flose of any kind.

LaPIS, in Roman antiquity, a geographical meafure denoting a mile; becaufe miles were diftinguilhed by crecting. a flonc at the end of each; from the number marked on which, the length of way from Rome night be known. The device is by Plutarch afcribed to Caius Gracchus. This was more accurately executed by Augufus, who erected a gilt pillar in the forum, at which all the pullic ways of Italy, diffinguifthed by flones, were terminated. The fame thing was done in the Roman provinces. Hence the phrafes tertius lapis, contefimus lapis, \&c. for three, a bundred,

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Lapis huad:ed, \&c. miles; and fometimes the ordinal nuntber without lapis, as ad duodecimum, \&c. at twelve miles diltance.

Lapis Affius, in the natural hiftory of the ancients, the name of a ftone called allo farcophazus, from its power of confuming tleth. See Sarcophagus.

Lapis Bononienjis, the Bolognian fone. See CheMistry, No $1081,1082$.

Lapis Fungifer, a kind of earth found near Rome, Naples, and Florence. It is found in the chalk hills near Naples, in a ftaladitical form and of a white colour, intermised with fine roots of fhrubs. A piece of it from Italy was found to contain filiceous, argillaceous, and calcareous earth, together with fome magnefia, vegetable alkali, and oxide of iron.

Lapis Lazuli. See Lazuifte, Mineralogy Index.

Lapis Lyncurius. See Lifncurius, \} Mineral-
Lapis Alutabilis. See Hydrophanes, $\}$ ogy Iudex.
Lapis Hepaticiss. See Liver-Stone.
Lafis Lydius. See Touchistone, and Lapis Lrdius, Mineralogy Index.

Lapis Objidianus. See Obsidian, Mineralogy Index.

Lapis Nephriticus. See Jade-Sione, Mineralogy Index.

LAPITH $e$, in Ancient Geography, a people of Theffaly. See the next article.
L. APITHUS, in fabulous hiftory, a fon of Apollo, by Stilbe. He was brother to Centaurus; and married Orfinome, daughter of Euronymus, by whom he had Phorbas and Periphas. The name of Lapithe was given to the numerous children of Phorbas and Periphas, or rather to the inhabitants of the country of which they had obtained the fovereignty. The chief of the Lapithre affembled to celebrate the nuptials of Perithous, one of their number. Among them were 'Ihefeus, Dryas, Hopleus, Mopfus, Phalerus, Exadius, Prolochus, Titarefius, \&c. The Centaurs were alfo invited to partake the common feftivity; and the amufements would have been harmlefs and imocent, had not one of the intoxicated Centaurs offered violence to Hippodamia the wife of Perithous. The Lapithe refented the injury, and the Centaurs fupported their companions; upon which the quarrel became univerfal, and ended in blows and flaughter. Many of the Centaurs were flain, and they at laft were obliged to retire. 'Ilhefeus among the Lapithr fhowed himfelf brave and intrepid in fupporting the caufe of his friends; and Neftor alfo was not lefs active in the protection of chaftity and innocence. Hefiod has defcribed the battle of the Centaurs and Lapithæ; as has alfo Ovid, in a more copious manner. The invention of bits and bridles for horfes is attributed to the Lapithre.

LAPLAND, the moft northerly country of Europe, extending from the North cape in $7 \mathrm{I}^{\circ} 30^{\prime} \mathrm{N}$. Lat, to the White fea under the arctic circle, is inhabited by the fame people, though the country is fubject to different powers. Norwegian Lapland, under the dominion of Denmark, lies between the northern fea, the river Pais, and the lake Enarak. Swedifh lapland compreliends all the country from the Baltic to the mountains that feparate Norway from Sweden. It is divided into fix diftricts, denominated
march or territory ; and thefe are diftinguifhed by the Lapl? names of rivers, fuch as Aungnermanland, Elma, Peta, Lula, 'lorna, and Kimi. The eattern part, fubject to the czar of Mufcovy, fituated between the lake Enarak and the White fea, is clivided into three diftinet prefectures; namely, that of the iea coatt towards the north, called Mourmankoi Leporie; the Ter. flooi Leporie, upon the coalt of the White fea; and the third, or inland, known by the name of Bellamorefoi Leporic. In Swedifh Lapland, which is the moft confderable of the three, the provinces or marcks are fubdivided into fmaller diftricts called biars, condiling each of a certain number of families; among which the land is parcelled out by government, or the prefect of the diltrict appointed by the king of Sweden.

Lapland may be termed a huge congeries of frightful rocks and Itupendous mountains; interfuerfed, lowever, with many pleafant valleys, watered by an infinite number of rivulets that run into the rivers and lakes, which difcharge themfelves into the gulf of Bothnia. The names of the principal lakes in Lapland are the Great Uma, the Great Windel, the Oreavan, the Stor-avan, the Great Lula; the lakes of Kartom, Kali, Torno, Enara, and Kimi. Some of thefe extend 60 leagues in lengtl, and contain a great number of illands: Stor-avan is faid to contain 365 : and Enara contains an archipelago of iflands fo large, that no Laplander has lived lung enough to vilit each particular ifland. The natives belicve this country to be the terreftrial paradife; and indeed nothing could be more enchanting than fuch valt profpects of mountains, hills, forefts, lakes, rivers, \&cc. if the country was in a moderate climate; though even here. in fummer the rofes are feen blowing wild on the banks of the lakes and rivers, with all the beautiful glow of colour which appears in thofe cultivated in our gardens. But all the intervals between the mountains are not engrofed by thefe agreeable profpects; great part of the flat country is covered with brown dufky forefts of fir and pine trees; and thefe are often Kirted by wide extended morafles, the ftagnating waters of which in fummer froduce myriads of mifchievous infects, that are more intolerable than even the cold of winter.

The cold of Lapland is very intenfe during the winter, freezing even brandy and the watery part of fpirit of wine, if the latter is not highly rectified: all the lakes and rivers are frozen to a prodigious thicknefs; and the whole face of the country is covered with fnow to the depth of four or five feet. While this continues loofe, it is impoffible to travel; for a man's eyes are not only blinded with it, but if a ftrong wind fhould rife he will be buried in the drifts of fnow : yet thould a partial thaw take place for a few hours, the furface of this flnow is formed by the fucceeding frof into a hard impenetrable crult, over which the Laplander travels in his fledge with great celerity. While the thaw prevails, the air is furcharged with vapours, and the climate is rainy; but while the north wind blows, the fky is beautifully ferene, and the air very clear.
'The heat of fummer is almoft as intolerable in Lapland as the cold of winter. At the northern extremity of the country the fun never fets for three months in fummer, and in winter there is an uninterrupted night of the fame duration; but this is qualified in fuch

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apiland a manner by a conitant revolution of dawn and twilight, by a ferene iky, moon light, and aurora borealis, reflected from the whise furface of the earth covered with frow, that the inlabitants are enabled to hunt, firh, and procced with their ordinary occupations. The country abounds with excellent fprings; and is remarkable for fome furpriing cataracts, in which the water tumbles over frighteful precipices, and daftes among rocks with amazing impetuofity and noife.
The foil of Lepland is generally fo chilled and barren, that it probuces little or no grain or fruit trees of any kind. This fterility, however, is not fo much owing to the foil, which is in many places of a rich mould, as to want of induftry; for in forne diftrias the Swedes have tilled and manured pieces of ground that bear plentiful crops of rye. There is alfo great plenty of berries: fuch as black currants; what is callied the Norwegian mulberry, growing upon a creeping plant, and much efteemed as an antifcorbutic; ralpberries, cranberries, juniper berries, and billberries. The tops of the mountains are fo much expofed to intenfe cold, and tempefts of fnow and bail, that no tree will grow near the fummit; but in parts that are more heltered, we fee fine woods of birch, pine and fir, difpofed by nature as if they had been planted by art in rows at regular diffances, without any undergrowth or encumbrance below. Befides thefe trees, fome parts of Lapland produce the fervice tree, the willow, the poplar, the elder, and the cornel. Ainong the plants of this country the principal is the angelica; which is greatly efteemed by the natives, who ufe it in their food. Here is likervife the acetofa or forrel, which grows in great plenty, and is of much fervice on account of its antifcorbutic properties. They have alfo other kinds of herbs peculiar to the country, different kinds of grafs, heath, fern, and mofs; which are all enumerated by Linnæus in his Flora Lapponica. But the vegetable which is in greatell plenty, and of the mont extenfive ufe among them, is the lichen rangiferus. The rein deer is wholly fultained in winter by this vegetable; and the Laplanders themfelves boil it in broth as a cordial and reftorative. They likewife ufe one fort of it as a foft, eafy, and wholefome bed for their newborn children.
Some filver and lead mines have been d.fcovered in the provinces of Pitha and Lula; and two of copper, tozether with excellent veins of iron, in the ditrict of Torno; but they are not at prefent worked with any confiderable advantage. In fome places there are veins of filver and gold mixed; but thefe mines are worked on'y for a few months in the fummer, becaufe the froft hinders the engines from playing. Here are found beautiful cryitals, of a furprifing magnitude, fo hard and fine, that when polifhed they refemble real diamonds. In fome places amethyfts and topazes are alfo found, but pale and cloudy; alfo a great quantity of very curious ftones, which are too hard to be worked by the tool of the mafon. Some of thefe found on the banks of rivers and lakes, when they happen to bear the lealt refemblance to the figures of animals, the Laplanders remove to more conficuous places, and adore as deities. The province of Tornea affords forme curious ftones of an octagonal hape, regular, Giining, and polified by the hand of nature. In forme

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rivers they fill fur pearls, which are gencrally pale; Liplant. but fore of them are as bright as the oriental pearls, and much larger and rounder. 'Thefe pearls are found in muttel thells; and the filbery is 1.0 in the tea, but in rivers.

Lapland, as well as Norway, is infefted with a great number of gray wolves and be:t:s, with whom the in habitants wage perpetual war. 'The molt honourable exploit anong the Laplanders is that of hilling a bear; and the heroes adorn their caps with a lmall plate of lead or pewter for every bear they have 1lain. The country abounds alfo with eiks, beavers, and otiers, which live here ummoletted, and find plenty of fi:h far their fubfiftence. 'lihe forelts of this country furnish haunts to a great number of beautiful martens and fquircels; which laft change their colour every winter from brown to gray. Lapland is alfo the native country of the zibeling or lable, whole $\mathbb{l k i n}$ is extremely valuable. Here are likewile crmines, wealels, bares, large black cats which attend the Laplanders in hunting, and little prickeared curs trained to the game. But the molt remarkable animal of Lapland is the rein deer, for an account of which, fee Cervus, Mammilia Index. Thefe animals, fo ufeful in rarious refpects to the natives, are kept at no expence. In fummer they feed upon grafles and alpine plants; in winter, as already mentioned, upon the lichen rangiferus, or rein-deer lichen, and its varieties, which are fo abundant as in many parts almoft totally to cover the ground for the fpace of feveral miles, and which the fagacious animal difcovers under the fnow by the peculiar acutenefs of its fmell. Moft of thofe ufed for draught are caftrated when very young, and are larger and fatter than the bucks. The woods, mountains, and rivers, are well flocked with wild fowl; fuch as buftard, partridge, growfe, heathcock, pheafants, lapwings, fwans, wild geefe, wild ducks, and all forts of aquatic birds that build and breed in northern climates. In the beginning of the fpring the fwans go thither in numerous fights from the German ocean; the lapwings follow in fuch fwarms that they darken the $\mathbb{1 k y}$ as they pals along, and fcream fo loud that they may be heard at a great diltance. The rocks and mountains are likewile frequented by eagles, hawks, falcons, kites, and other birds of prey.-The rivers abound with delicious falmon from the gulf of Bothnia, trout, bream, and perch of exquilite Havour and amazing magnitude; and the inhabitants of Wardhus, or Danilh Lapland, are well fupplied with fill from the northern ocean.With refpect to infects, the Hies hatched in the moraffes and woods in fummer are fo numerous, that they often obfcure the face of day; and fo venomous, troublefome, and intolerable, that the rein deer Hy to the tops of the higheit mountains for flaelter, and the laplanders betake themfelves to the fea fide, which is the leaft infefted by thefe peftilent vermine.M. de Maupertuis, in lis account of the voyage he made to Lapland, in company with the other French mathematicians fent thither by the king to meafure a degree of the moridian, gives us to underlland, that on the tups of the mountains in Torno the flies were fo troublefome, "hat even the Fimland foldiers, who are counted the moft hardy troops in the fervice of Sweden, were obliged to cover their faces with the $\mathbb{R}$ irts of their coats from the attacks of $t_{3} f(e$
animals,

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Lapland. a:imats, which fwarmed to furh a degree, that the moment a piece of flefl appeared it was blackened all over. Some of thefe flies are very large, with green heads, and fetch blood from the fikin wherever they frike. The Laplanders throud thenafelves in the fmoke of a large fire kindled for that purpofe: yet even this difagreeable expedient was not fufticient to defend the French philofophers: they were obliged, notwithfanding the excefiive heart, to wrap up their heads in garment 3 made of the fikins of rein-deer, called in that country lapmudes, and to cover themfelves with a thick rampart of fir boughs; yet all thefe precautions proved ineffectual. Ni. de Maupertuis obferved a lake quite covered with little yellowih grains, refembling millet feed, which the fuppofed to be the chryfalifes of fome of there infects.

The Laplanders are very low in flature, and are likewife remarkable for laving large heads. They are allo ill-fhaped, and their features harfh. They are, however, ftrong, hardy, and robuft, infomuch that they will bear incredible fatigue; and it is remarked that the flouteft Norsegian is not able to bend the bow of a Laplander. The women are much lefs homely than the inen, and many of them are noted for a delicate and florid complexion.

Thefe people are fimple, honef, hofpitable, and timorous: their timidity, however, refpects war alone; for to many other fpecies of dangers they expofe themfelves with furprifing intrepidity, whether in afcending and defcending mountains and precipices with their fnow fhoes and in fledges, or in venturing amidft whirlpools and cataracts in little flender boats made of thin fir boards, fattened together with thongs of leather, finews of wild beafts, or tough and tlexible twigs of willow and ofier. Thefe boats are of different fizes, from two to fix yards in length, managed with oars and caulked with mols fo tight as to keep out the water. The Laplanders are partly fettled, and in part wild and roving: the latter live in tents made of coarfe cloth; the former are fixed in fmall villages near the lakes, and chiefly follow finhing. They build their cottages fomewhat in the thape of a cone, by placing a circle of large trees or poles aflant in the earth, and clofe to each other, fo that their tops meet, and form a fmall vent for the iflac of the fmoke; they cover the ground within with branclies of trees. In fpring their tood confifts principally of the eggs of water fowl, which are extremely plentiful in thole parts; in fummer and autumn, of the birds themfelves, and of various others of the partridge tribe; and in winter of the milk and tlefh of the rein deer and dried filh. They had till lately no bread; but in lieu there of ufed the inner 1ind of the pine tree dried and ground, and dried filh reduced to powder. They make confetions and decoctions of berries, angelica, and forrel, which they junly reckon to be prefervatives againf the feurvy. The Laplander is fecured in the poffeflion of uninicriupted health by temperance and exercife, which, together with the feverity of the climate, brace bis rerves to a very unufual pitch of ftrength, and fortify his conftitution in fuch a manner, that he often lives to the age of ros, without fecling the leaft pang of diflemper, or even perceiving his vigour in the leall impaired; 'or it is not uncommon to fee a Liplander, is estrense old age, hunting, fowling, 隹ating, and
performing all the feveref exercifes with urdiminihed agility.

The fummer garb of the men confifts of a long coat of coarie cloth, reaching down the middle of the leg, and girded round the wailt with a belt or girdle; from which hang a Norway knife, and a pouch con. taining fints, matches, tobacco, and other necelfaries; the girdle itelf being decorated with brafs rings and chains. Their caps are made of the $\mathfrak{l k}$ in of the northenn diver, with the feathers on; and their thoes of the rein deer thin, with the hair outwards. They wear wo linen; but the garments of the better fort are of a finer cloth, and they delight in a varicty of colours, though red, as the moft glaring, is the moll agreeable. In winter they are totally cafed up in coats, caps, boots, and gloves, made of the rein deer tkins. In the Fiora Lapponica Linneus fays, "Perhaps the curious reader will wonder how the people in Lapland, during the terrible cold that reigns there in winter, can preferve their lives; fince almoft all birds, and even fome wild bealts, defert it at that time. The Laplander, not only in the day, but through the whole winter nights, is obliged to wander about in the woods with his herds of rein deer. For the rein deer never come under cover, ror eat any hind of fodder, but a particular kind of liverwort. On this account the herdfrien are under the neceflity of living continually in the woods, in order to take care of their catte, left they fhould be devoured by wild beafts. The Laplander eafily does without more light, as the fnow relleets the says that cyome from the flars, and as the aurora borealis illuminates the air every night with a great variety of figures. No part of our body is more eafily deftroyed by cold than the extremities of the limbs which are mof remote from the fun of this microcofin, the heart. The kibes that happen to our hands and feet, fo common in the northern parts of Sweden, prove this. In Lapland you will never fee fuch a thing; although, were we to judge by the fituation of the country, we fhould imagine juft the contrary, efpecially as the people wear no flockings, as we do, not only fingle, but double and triple. The Laplander guards himfelf againt the cold in the following manner: He wears breeches made of rein deer fkins with the hair on, reaching down to his heels, and fhoes made of the fame materials, the hairy part turned outwards. He puts into his floes flender-eared broad-leafed cyperus grafs, (carex veficaria, Spec. Pl. or the bladder carex), that is cut in fummer and dried. This he firtt combs and rubs in his hands, and then places it in fuch a manner that it not only covers his feet quite round, but his legs alfo ; and being thus guarded, he is quite fecured againit the intenfe cold. With this grafs they fuff their gloves likewife, in order to preferve their hands. As this grafs keeps off the cold in winter, fo in fummer it hinders the feet from fweating, and at the fame time preferves them from being annoyed by ftriking againt fones, \&c. for their thoes are very thin, being made, not of tanned leather, but the raw hide."

The women's apparel differs very little from that of the other fex: only their girdles are more ornamentedwith rings, chains, needle cafes, and toys, that fometimes weigh 20 pounds. In winter, both men and women lie in their furs; in fummer they cover them-

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apland. Seives entircly with courfe blankets to defend them from the guats, whicla are intolcrable. The Laplanders are not only well difpofed, but naturally ingenious. they make all their own furniture, their boats, lledges, bows and arrows. They form neat boxes of thin birch boards, and inlay them with the hom of the rein deer. The Swedes are very fond of the Lapland bafkets made of the roots of trees, fit in long thin pieces, and twifed togetier fo nicely that they will hod water. Among the manufactures of this country we likewife number curious horn fpoons, and mould in which they caft the trinkets of tin whicla adorn their girdles. Over and above thefe domettic occupations, the men within doors perform the office of cooks in drefling vintuals for the family. The women act as taylors and cmbroiderers; they make clothes, thoes, and boots, and harnefs for the rein deer: they fpin thread of fur, and linit it into caps and gloves that are very foft and warm. They draw tin into wire through a horn; and with this they cover the thread which they ufe in embroidering the figures of bealts, flowers, trees, and ftars upon their caps and girdles.

The Laplanders make furpriing excurfions upon the fnow in their hunting expeditions. They provide themfeives each with a pair of fikates, or fnow fhoes, which are no other than fir boards covered with the rough $\mathbb{R k i n}$ of the rein deer, turned in fuch a manner that the hair rifes againt the fuow, otherwite they would be too flippety. One of thefe fhats is ufually as long as the perfon who wears it ; the other is about a foot florter. The feet fland in the middle, and to them the fhoes are faftened by thongs or withes. The Laplander thus equipped wields a long pole in his hand, near the end of which thcre is a round ball of wood to prevent its piercing too deep in the frow; and with this he ftops himfelf occafionally. By means of thefe accoutrements he will travel at the rate of 60 miles a-day without being fatigued; afcending fteep mountains, and fliding down again with amazing fwiftnefs.

The Laplander not only travels a-foot, but is provided with a carriage drawn by the rein deer, in which he journeys with flill greater rapidity. The fledge, called pulka, is made in the form of a fmall boat, with a convex botiom, that it may flide the more eafily over the fnow: the prow is fharp and pointed; but the fledge is flat behind. The traveller is frathed in this carriage like an infant in a cradle, with a flick in his hand to fteer the velfel, and difengage it from pieces of rock or fumps of trees that may chance to encounter it in the route. He mult alfo balance the fledge with his body, otberwife he will be in danger of being overturned. 'The traces,' by which this carriage is faftened to the rein deer, are fived to a collar about -the animal's nech and run down over the breaft between the fore and hind legs, to be connected with the prow of the fledgr: the reine, manased by the travellcr. are tied to the hurns; and the trappings are furninied with intle hells, the found of which is ayrceable to the animal. With this dranglt at his tail, it has been reported that the rein deer will fy like lightning over till and dale at the rate o! 200 mil!s a-d ty. But this reprefentation is greatly exag serated. According to the beft accounts, the common pace of the tein deer is only at the rate of about four miles an inour ; Hou h h,
if he be profed, he will travel f o or 12 Swedilla miles I.apind ( 70 or 84 Englith miles) in a day; but by fuch hard driving is gencrally deftroyed. It, however, frequently happens, that he will perfevere in his journey 50 miles without intermilion, and without taking a:y refrethmeat, except occationally moilening his mouth with the frow. Before he fets out, the Lap. lander whifpers in his ear the way he is to follow, and the place at which he is to lialt, tirmly perluaded that the beat undertands his meaning: but, in Cpite of this intimation, te frequently flops thort long belore he has reached the journey's end; and fometimes lie everihoots the mark by feveral leagues. lin the beginning of winter the Laplanders mark the molt frequented roads, by ftrewing then with fir boughs; and indeed theie roads are no other than pathways made through the fnow by the rein deer and the puikas their being frequently covered with new finow, and alternately beaten by the carriage, confolidates them into a kind of cauleway; which is the harder if the furface has felt a partial thaw, and been crufted by a fubfequent frott. It requires great caution to follow the fo tracks; for if the carriage deviates to the right or left, the traveller is plunged into a: abyfs of now. In lefs frequented parts, where there is no fuch beaten road, the Laplander directs his courle by certain marks which he has made on the trees.

The chief occupation of the Laplanders is hunting, and this execcife they perform in various ways. Ia fummer they hunt the wild bealts with fmall dogs, trained to the diverfion. In winter they purive them by their track:s upon the frow, flating with lo great velocity, that they very often rur down the prey. They catcly ermines in traps and fometimes with dugs. They kill 〔quirrels, martens, and fables, with blunt darts, to avoid wounding the finis. Foxes and beavers are flaia with flarp-pointed darts and arrows; in fhooting which, they are accounted the beft markfinen in the world. The larger bealts, fuch as bears, wolves, clks, and wild rein deer, they either kill with fircarms purchafed i: Sweden or Norway, or take in fnares and pits dug in the forefts. Their particular laws relating to the chafe are obferved with great punctuality. The beaft becomes the pioperty of the man in whofe fnare or pit he is caught; and he who difcovers a bear's den has the cyclufive privilege of hunting him to death. The conquef of a bear is the moit honourable atchievenent that a Laplander can perform; and the flefh of this animal they account the greatelt delicacy on earth. The bear is al:ays dePratched with a fuil, fometimes laid as a finare, ready cocked and primed; but more frequently in the hands of the hunter, who runs the moft immineat rifk of his life thould be mifs his aim of wounding the bealt mortally. The death of a bear is celebrated by the Laplaniders as a fignal vietory. The carcals is dirawn to the cabin or hut of the victor by a rein deer, which is kept facred from any other work for a whole vear after this fervice. The bear is furrounded by a great number of men, women, and childien, reciting a particular hymn or fong of triumph, in which they thank the vanquithed enemy for having allowed himfelf to be overcome without doing any mifchief to his conqueror, and welcome his arrival : then they make an apoflrophe to heaven, exprefling their acknowledgment to

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Lap'and. God. that lie has created bealts for the ufe of men, asd endued mankind with itrength and courage to overcome and attack the fiercelt of the brute creation. The bero is foluted by the women, who fpit chewed elderbark in his face. He is feafed three days fuccelinely, and his cap is decorated with an additional figure rwought in tin wire.

The manner in which the young Laplander choofes a wife is equally remarkable and ludicrous. When he has pitched upon a female, he employs fome friends as mediators with the father; and thefe being provided with fome butiles of brandy, the fuitor accompanies them to the hut of his future father-in-law, whe invites the mediators to enter ; but the lover is left without until the liquor be drank, and the propofal difcuffed: then be is called in, and entertained with fuch fare as the hut affords; yet without feeing his mistrefs, who retires and goes out on this occafion. Having obtained leave of her parents to make his addrefies in perfon, he puts on his beft apparel, and is admitted to the lady, whom he falutes with a kifs; then he prefents her with the tongue of a rein deer, a piece of beaver's flefh, or fome other fort of provifion. She declines the offer, which is made in prefence of her fifters and relations; but makes a fignal to the lover to follow her into the fields, where the accepts the preferis. Thus encouraged, he begs her permition to Oecp with her in the hut: if the coafents, there is no further dificulty; if he difapproves of the propofal, the drofs her prefents on the ground. When the lovers are agreed, the youth is permitted to vifit his inamorata as often as he fhall think proper: but every time he comes, he muft purchafe this pleafure with a freif bottle of brandy; a perquifite fo agreeable to the father, that he often poftpones the celebration of the nuptials for two or three years. At length the ceremony is performed at church by the prieft of the parih. Even after this event, the huband is obliged to ferve his father-in-law a whole year; at the expiration of which he retires to his own habitation with his wife and her patrimony of rein deer, and receives prefents from all his friends and relations. From this period he fequefters his wife from the company of all ilrangers, etpecially of the male fex, and watches over her conduct with the moft jealous vigilance.

Many Lapland women are barren, and none of them are very fruitful. A woman, immediately after delivery, fwallous a draught of whale fat: the child is wafled with fnow or cold water, and wrapped up in a hare Rhin. The mother is feldom above five days in the Iraw, and in fourteen is generally quite recovered: then the carries the child to church to be baptized. Before fhe can reach the refidence of the prieft, the is often obliged to traverfe large forefts, mountains, lakes, and wide extended waftes of frow. The infant is faftened in a hollowed piece of wood, ftretched naked on a bed of fine mofs, covered with the foft din of a young rein deer, and flung by two ftraps to the back of the mother, who always fuckles her own child. At home this little cradle is hung to the roof of the hut, and the child lulled aflcep by fwinging it from one fide to the other. The boys from their infancy practife the bow; and are not allowed to break their falt watil they have hit the mark, The femate childaren
are as early initiated in the bufinefs paculiar to their Laplani fce.

Thefe people, though for the mof part vigorous and healthy, aie not altogether exempied from diftemper. T'hey are fubject to fore eyes, and even to blindnefs, from the fmoke of their huts, and the fire to which they are almof continually expored. Some wafte away in confumptions; others are afllicted with rheumatic pains and the fourvy; and a fow are fubject to vertigo and apoplexy. For the cure of all their internal diforders, they ufe no other medicine than the decoction of a certain feccies of mofs; and when this cannot be procured, they boil the italk of angelica in the milk of the rein deer. In order to remove a fixed pain, they apply a large mulhroom, burning hot, to the part affected; and this produces a bliter, which is fuppofed to draw off the peccant humour. To their wounds they apply nothing but the turpentine that drops from the fir tree. When they are frolt bitten, (though according to the above catract from Linneus this feldom or never happens), we are told that they thrult a red-hot iron into a cheefe made of rein deer's milk, and with the fat that drops from it ancint the frozen member, which generally recovers. When a Laplander is fuppofed to be on his deathbed, his friends exhort him to die in the faith of Chrill, and bear his fuferings with refignation, by remembering the paffion of our Saviour. They are not, howeser, very ready to attend him in his laft moments; and as foon as he expires, quit the place with precipitation, apprehending fome injury from his fpirit or gholt, which they believe remains with the corpfe and takes all opportunities of doing mifchief to the living. The deceafed is wrapped up in woollen or linen, according to his circumftances, and depofited in a coltin by a perfon felected for that purpofe: but this olfice he will not perform, unlefs he is firft fecured from the ill offices of the manes, by a confecrated bra!s ring fixed on his left arm. The Chrilian religion in this country has not yet difpelled all the rites of heathenifh fuperftition: together with the body they put into the coffin an axe, a flint, and Ateel, a thafk of brandy, forme dried fifh and venifon, With the ave the deceafed is fuppofed to hew down the bufhes or boughs that may obitruct his paflage in the other world: the feel and fiint are defigned for Atriking a light, fhould lie find himfelf in the dark at the day of judgement; and on the provifion they think he may fubfitt during his journey.

The Mufoovite Laplanders oblerve other ceremonies, that bear an affinity to the fuperslitions of the Greek church. They not only fupply the defunct with money, but likewife provide him with money for the porter of paradife, and a certificate figned by the prieft, and directed to St Peter, feecifying that the bearer had lived like a good Chriftian, and ought to be admitted into heaven. At the head of the cotfin they place a little image of St Nicholas, who is greatly reverenced in all parts of Mufcovy as a friend to the dead. Before the interment, the friends of the deccafed kindle a fire offir boughs near the colfin, and exprefs their forrow in tears and lamentations. They walk in proceffion feve. ral times round the body, demanding, in a whining tone; the reafon of his leaving them on earth. They.

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Ipiand. afk whether he was out of humour with lis wife; whether he was in want of meat, drink, clothing, ir other neceffaries; and whether lie had not fucceeded in lunning and filhing ? Thefe, and other fuch interrogations, to which the defunct makes no reply, are intermingled with groans and hideous howlings; and, between whiles, the prielt fprinkies the corpfe and the mourners alternately with holy water. Finally, The body is conveyed to the place of interment on a fiedige drawn by a rein deer; and this, together with the clothes of the decealed, are left as the prien's perquinite. Three days after the burial, the kinfmen and friends of the defunct are invited to an entertainment, where they eat the Hefh of the rein deer whicls conveyed the corple to the burying ground. 'This being a facrifice to the manes, the bones are collected into a baket, and interred. I'wo thirds of the eflects of the deceafed are inherited by his brothers, and the remainder divided among his fifters: but the lands, lakes, and rivers, are held in coparceny by all the children of both lexes, accordiag to the divifion made by Charles IX. of Sweden, whea he affigned a certain tra\&t of land to each family.

The commerce of the Laplanders is more confiderable than one would expect in a defert coantry, inhabited by a favage ignorant people. They export great quantities of bifh to the northern parts of Bothnia and White Ruliia. They likewife trade with the neighbouring countries of Norway, Sweden, Mufo$v y$, and Finland, by felling rein deer, fine furs, bafkets and toys of their o:rn manufacture, dried pikes, and cheefe made of the rein deer's milk. In return for thefe commodities they receive rixdollars, woollen cloths, linen, coppei, tin, Hour, oil, bides, needles, knives, firituous liquors, tobacco, and other neceflasies. The Laplanders march in caravans to the fairs in Finland and Norway: thefe are compored of a long ftring of 30 or 42 rein deer and pulkas tied to one another, the foremof being led by a Laplander on foot. When they have chofen a fpot for an encampment, they form a large circle of their rein deer and pulkas ready soked; and th:e animals lying down quietly on the fnow, are fed with mofs by their mafters. The people kindle great fires, around which, men, women, and children fit, and fup on dried filh: but the nore voluptuous fpread out bear flins under their tents, where they lie at their eafe and fmoke tobacco.

The revenue arifing from this country is of no great confequence : it is paid partly in rixdollars, but chiefly in furs; nay, fome that can procure neither, pay the tribute in dricd pikes. The produce of the mines forms likewire a confiderable article. Fifty fquirrel 凡ins, or one fox $\mathbb{k}$ in, with a pair of Lapland choes, are valued at one rixdollar. Part of the taxes is allotted for the maintenance of the Lapland clergy. The frightful afpect of this country has been deemed a more effectual defence than artificial bulwarks and garifons, of which here are none; or than the arms and courage of the natives, who are neither warlike in themfelves, nor in the leaft tinctured with difcipline.

The laplanders call themfelves Salme-Same, and Samen. Almatieh. Their country they denominate SameLanda, or Same-adnam; the Swedes ftyle it Lapland or Lappmarken, and the inhabitants Lappar. The na-
tives of thofe difities under the dominion of Suseden Lapt. Es and Denmark are Lutherans; while many of tio?e who are fubject to Kunia are Cill I'agans. Swedith Lapland contairs alout cight churches, which in fome parts lie at fo great a difance from each cilier, that a native is frequently obliged to travel ibree cass in order to attend disinc fervice. The Laplanders, before their ennverfion to Chrifianity, which was not till lately introduced amongft them, polfelied mo boons or manufcripts, though they linew many traditional hiftorics and fongs of ancient heroes and princes who once reigned over them ; but involved in great uncertainty, and mixed with the molt fabulous accounts. They have now a tranflation of the New Teftament in their language; and many of the natives are able to read and write.

LAPLISIA, or SEA-LLARE; a genus of marine animals belonging to the clafs of vermes. Sec Melmathology Index.
L. APSAN A, mpplewort ; a genus of plants belonging to the fyngenefia clals; and in the natural method ranking under the 49 th order, Compafitc. See Botany Index.

L APSE, in ecclefiaftical law, a thip or omifion of a patron to prefent a clerk to a benefice within fix months of its being void: in which cafe, the benefice is faid to be in lapfe, or lapfad, and the right of pre. fentation devolved to the ordinary.

And if the ordinary neglect to prefent during the fame time, the right of prefentation accrues to the metropolitan, and to the king by neglect of the metropolitan. This right of lapie was firl eftablithed in the reign of Henry II. when the bifhops farlt began to. exercife univerfally the right of inflitution to charches: and therefore when there is no right of inftitution, there is no righe of lapfe; fo that no donative can lapfe to the ordinary, unlefs it hath been augmented by the king's bounty; but no right of laple can accrue, when the original prefentation is in the crown. In cale the benefice becomes void by death, or cellion through plurality of benefices, there the patron is bound to take notice of the vacancy at his own peril; but in cale of a vacancy by refignation or canonical deprivation, or if a clerk prefented be refufed for infufficiency, thefe being matters of which the biffop alone is prefumed to be cognizant, here the law requircs him to give notice thereof to the patron, otherwife he can take no advantage by way of lapfe; neither fhall any lapfe accrue thereby to the metropolitan or the king. If the bithop refufe or neglect to examine and admit the patron's clerk, without good reafon affigned or notice given, he Mall have no title to prefent by lapfe: and if the right of prefentation be litigious or contelted, and an action be brought againt the bilhop to try the title, no lapfe fhall occur till the queftion of right be decided. If the bifnop be both patron and ordinary, he thall not have a double time allowed him to collate in : and if the bifhop doth not collate his own clerk inmediately to the living, and the patron prefents, though afier the fix months are lapfed, yet the prefentation is good, and the bifhop is bound to inttitute the patron's clerk. If the bifliop fuffer the prelentation to lapfe to the metropolitan, the patron alfo has the fame advantage if he prefents before the archbithop has flled up the benefice: yet the ordinary

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Lapaing ordinary camot, after laple to the metropolitan, collate lis own clerk to the prcjudice of the archbilhop. But if the prefentation laples to the king, the patron finll bever secover his right till the king has fatistied his turn by prefentation; for mullurn tompus occurrit rest.

LAPiving. See Tringa, Ornithology Inder.
IA 1 @UEARIUS, a kind of athleta among the ancients, who in one land held a lequcus, i. e. a furt of fnare, wherewith to embarrafs and entangle his antagosift, and in the other a poniard to ftab him.

LAOUEUS, in Surgcry, a kind of ligature fo contrived, that, when firetched by any weight or the like, it draws up clofe. Its ule is to extend broken, or T:Ijoiated bones, to keep them in theit places while they are fet , and to bind the parts clofe together.

LAR, a town of Perfin, in the province of Fare, with a caltle. It carries on a great trade in fi!k; and its territory abounds in oranges, lemons, and very lurge tamarinds. E. Long. 54. 15. N. Lat. 27.30.

L 1 RACHA, an ancient and frong town of $A f_{1} i c a$, in the kingdam of Fez. It is featerl at the mouth of a river of the fame name, with a good harbour. It was once in the poffeffion of the Spaniards; but the Moors took it from them. W. Long. 5. 55. N. Lat. 350.

LARARIUM, was a chapel which the Romans fresuently had in their houfes for the houfehold gods, called lores. Spartian fays, that Alexander the fon of MI:mmens kept in his latarium the figure of our Saviour, toyether with his other idols.
$L A R: O \notin R D$, among fearen, the left-hand fide of the ihip when you fland with your face towards the heau.

LARCENY, or Theft, by contraction for latrociny, latrocinium. is diftinguinhed by the law into two forts: the one called fimple larceny, or plain theft, unaccumpanied with any other atrocious circumftance; and mixed or compound laicenty, which alfo includes in it the aggravation of a taling from one's houfe or perfon.

1. Simpie !arceny, when it is the flealing of goods above the value of twelvepence, is called grand larceny; when of goods to that value, or under, is petif larcerm: offences, which are confiderably dittinguifhed in their punilhment, but not otherwife. See Tifeft.
II. Mixicd, or compousd larceny, is fuch as has all the properties of the former, (fee Theft) ; but is accompanied with either one or both of the aggravations of a taking from one's honfe or perfon. Firft therefore of larceny from the houfe, and then of larceny from the perfor.
2. Larceny from the houft, though it might feem to have a higher degree of guilt than fimple larceny, yet is not at all diftinguithed from the other at common law; unlefs where it is accompanied with the circumflance of breaking the houfe by night; and then it falls under another defeription, viz. that of burglary, (fee Burglary). Ikut now by feveral acts of parliament (the hifiory of which is very ingeniounly
Barro3nd deduced by a learned modern writer *, who hath ftown them to have gradually arifen from our improvements in trade and ofulence), the benefit of clergy is taken from tlarcenies committed in a houfe in almolt every inftance :
except that larceny of the fock or utenfils of the Plate Larei Glafs Company from any of therr houles, dec. is made only Engle teiony, and liable to tranfortation for leven years. The multiplicity of the general acts is apt to create fome confufon; but upon con-paring them diigently, we may callect, thia: the benefit of clergy is denied upon the following domeilic aggravations of larcony; viz. firf, in larcenies above the value of twaveprice, committed, I. In a church or chapel, with or Blacke. without woience, or breaking the fame: 2. In a booth Cormmea or tent in a marliet or fair, in the daytince or in the night, by violence or breaking the fame, the owner or fore of his fauily being therein: 3. By robbing a dvicling houle in the daytimé (which robbing mplies a breaking), any perfon being therein: 4. In a duerting houfe by day or by night, without bredking the lame, any perfon being thesein and put in fear; whech amounts in law to a roblery: and in both thele laft caies the acceifory betore the fact is allo excluded from his clergy. Secundiy, In larcenies to the value of five A.flings, comnitted, I. By breaking any dwelling hacife, or any outhoure, fhop, or warehoufe theremuto belonging, in the daysime, although no perton be thercin; which alfo now exten?s to aiders, abettors, and accefluries before the fact: 2. By privately ftealing goods, wares, or merchandife in any hiop, warchoule, coach-houfe, or flable, by day or hy night; though the fame be not broken open, and tbough no perion be therein : which likewife extends to fuch as aftill, hire, or command the offence to be committed. Latly, In larcenies to the value of forty billings in a dwelling hrufe, or its out houles, although the lame be not broken, and whether any perion be therein or not; unlefs committed againft their mafters by afprentices under the age of 15 . This alfo extends to thole who aid or affift in the commiffion of any fuch offence.
3. Larceny from the perfon, is either by privately ftealing, or by open and violent aftault, which is ulually called robbery.

The offence of privatcly ftealing from a man's perfon, as by picking his pocket or the like, privily, without his knowledge, was debarred of the benefit of clergy fo early as by the ftatute 8 Eliz. c. 4. But then it muf be fuch a larceny as ftands in need of the benefit of clergy, viz. of above the value of 12 d ; elfe the oflender thall not have judgement of death. For the ftatute creates no new offence; but only tales away the hencfit of clers $y$, which was a matter of grace, and leaves the thief to the regular judgement of the ancient law. This leverity (or a mon levere lan it cortainly is) leens to be owing to the cale witb which fuch offences are con mitied, the difficulty of guardiog againft them, and the boldnets with whicb they nere practiled (even in the quech's court and pretence) at the time when this ffatute was made: belides that this is an infringement of property in the marual occupation or corporal pofiefl on of the owner, which was an offence even in a date of nature. And theretore the facculariz, or cutpurfes, whe more fewerely puninied than common thievcs by the Roman and Ather.ian laws.

As to open and violent larceny from the perfon, lee Robbery.

LARDIZABALA, a genus of plants belonging to the diocia clafs, and order hexandria. It is a native

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Iderer. of Chili, and is thus defcribed from the drawings of La Miartinicre the naturalinl, who accompanied La Peroufe in his voyage of difcovery.

Male Flourr. - Calyw formed of fix expanding leaves, oblung, oval, and obtule; the three outermof being largelf. Corolla compofed of fix fharp petals, fhorter than the leaver of the calys.

Female Flower.- Calys fimilar to that of the male, but larger. Corolia compofed of fix petals rarely entire, but commonly trifid at their top. Stamina fix; filaments diftinct ; anthers fix, oblong, barren. Seedbud; cells from theee to fix, oblong, nearly the length of the corolla; fyles none; figmata fitting, permanent. Berries equal in number to the cells, oblong, acaminated (divided into fix cells, containing feveral angular (eeds).

LARDNER, Nathasil:L, an eminent Englih diffenting divine, was born at Hawkhurit in Kent, June 6. 1688 . After a grammatical education, to which grcat attention muft have been given, and in which a no lefs rapid progrels mult have been made, he was fent firf to a diflenting academy in London, which was under the care of the Rev. Dr Johna Oldfield; and thence, in his 16 th year, to profecute his fluties at Utrecht, under the celcbrated profefiors D'Uries, Grevius, and Burmon. Here he remained fomewhat more than three years, and then removed for a ihort fpace to Leyden. In 1703 he retumed to England, continuing at his father's houfe to employ himfelf by clofe and diligent preparation for the facred profeffion which he had in view. Qualified as he was, it was not till $r$ - 09 that he preached his firf fermon, from Romans i. 16.-_" a text (his biographer remarks) than which there could not have been a more proper one for a man who was deftined in the order of Divine Providence to be one of the ableft advocates for the authenticity and truth of the Chriftian revelation that ever exifted."

A few years after this, Lardner was received into Jady Treby's family as domeltic chaplain and tutor to her fon, and continued in this comforiable fituation till her ladyfhip's death in 1 '721. 'This event threw him into circumftances of fome perplexity, having preached to ?everal congregations during his refidence with Lady 'l'reby without the approbation or choice of any one congregation. Here we are told, " that it rellects no bonour on the Diffenters, that a man of fuch merit fhould folong have been neglected." But it has been cbererved upon this, that the pulpit was not the place in which Mr Lardner was calculated either to convey improvement or acquire reputation. D, Kippis af̈terwards informs us, " that his mode of elocution was very unpleafant; that from his early and extreme deafnefs he could have no fuch command of his voice as to give it a due modulation; and that he greatly dropped his words." It cannot then, as his biographer adds, be matter of furprife that he was not popular; nor, it may be added, can it be any retection on the congregations to which he oceafmonally prach. ed, that they did not choofe for their mit itlry a man, who, notwitiftanding his great learnin" and anmiable virtuec, was fo deficient as a public fpeaker, that it :"as impofible to hear him with any pleafure, and fast ly without pain.

Though Ar Lardner had roo church at which he
officiated as minifter, he was engaged with fome of his Lardnct. diffenting brethren in preaching a Tuelday evening lecture at the Old Jeirry. Acquainted probably with the direction of his ftudies, they appointed him to preach on the proof of the Credibility of the Gafpel IliRory. This he dicuffed, we are told, in two fermons; and prolecuting the fubject which he had taken up in thefe difcourfes, in February 1727 , he publihed, in tiso volumes octavo, the Firfl Part of "The Credibility of the Gofpel Hiftory, or the Facts occasiosalaly mentioned in the New Teflament confirmed by Paflares of ancient Authors who were contemporary with our Saviour or his Apoftles, or lived near their Time." An Apperdix was fubjoined, relating to the time of Herod's death.

Thus Mr Lardner commenced author, and began his literary carcer with fingular reputation. "It is fcarcely neceflary to fay (obferves Dr Kippis), how well this work was received by the learned world. Not only was it highly approved by the Proteftant Diffenters, with whom the author was more immediately connected, but by the clergy in general of the eflablithed church; and its reputation gradually extended into foreign countries. It is indeed an invaluable performance, and hath rendered the moft efiential fervice to the caufe of Criftianity. Whoever perules this work (and to him that does not perufe it, it will be to his own lofs) will find it replete with admirable inftruction, found learning, and jutt and candid criticifm." Thefe two, with the fublequent fifteen, rolumes octavo, and the four thin quartos entitled jewejgo and heathen Tefimonies, occupied him, with the interruption arifing from fome fimaller productions, during the face of furty-three years.

Dr Kippis gives us a particular account of the time when each volume was publifhed, and of the fubjects ditcuffed in each. The following ufeful information which the doctor introduces, in Ppeaking of the "Supplement to the Credibility," deferves well to be tranlcribed. "I cannot avoid Atrongly recom. mending this work (fays he) to the attention of all young divines. Indeed, I think that it ought to be read by every theological ftudent before he quits the univerfity or academy in which he is cducated. There are three other works which will be, found of eminent advantage to thofe who are intended tor, or beginning to engage in, the Chrifian miniftry. Thefe are, Butler's Analogy, Bithop Law's Confiderations on the Theory of Religion, and Dr Taylor's Key to the Apollolical Writings, prefixed to his Paraphrale on the Epifle to the Romans. Without agreeing with every circumfance advanced in thefe works, it may be faid of them with the greatell truth, that they tend to open and rnlarge the mind ; that they give important views of the evidence, mature, and derign of revtativi ; and that they difplay : wein of teafoning and inequiry which may be extended to other objects befides thole im:mediately confidered in the buoks themfelver. - It mult not be forgotten, that the Sipplament to the Credibility has a place in the excelleat cullection of treatiles in divinity which han lately been publiked by Dr Watfon bihop of L. ndaff. Fin a colle.tion which cannot fail of heing cmmenti con decive to the inll rustion and impr vement of whines clereymen, and for the foble, manly, and truly evangelical preface by which it is preceded,
ceded, this great prelate is entitled to the gratitude of the Chrilian world." It nay not be improper to add, ilhat the Supp. 'ement to the Credibility was fome years ago, publikied feparately by the book fellers, under the title of The Hiflory of the Gojpels and Epifhles.

Applauded as Dr Lardner's works were, he received Bittle recompenfe for them. Some of the latter volumes of the Credibility were publined at a lofs; and at laft he fold the copy-right and all the remaining printed copies to the bookfellers, for the trifling fum of 1501. His object, horsever, was not private emolument, but to ferve the interelts of truth and virtue; and it pleafed Divine Providence to fpare his life, both to complete hisextenfive plan, and to fee the laft volume, the 4 th of the Tefimonies, publifhed. This was in 1767 . He was feized with a decline in the fummer following; and was carried off in a few days at Hawkhurf the place of his nativity, where he had a fmall paternal eftate, in the 85 th year of his age.

LAREDO, a fea port town of Spain, in the bay of Bifcay, with a large fafe harbour. It is 30 miles weft of Rilboa, and 72 north by weft of Burgos. W. Long. 3. 45. N. Lat. 43. 23.

LARENTINALIA, in antiquity, a feaf beld annong the Romans on the 23 d day of December, but ordered to be obferved twice a $y$ - $r$ by Anguftus; by fonse fuppofed to have been in honour of the Lares, but by others, with more probability, in honour of Acca Laurentia; and to have been the fame with Laurentalia.

LARES, among the ancients, derived by Apuleius (De Deo Socratis), from lar, familiaris; a kind of domeffic genii, or divinities, worfhipped in houfes, and efteerned the guardians and protectors of families; fuppofed to refide more inmediately in the chimney corner.

The Lares were diftinguifted from the Penates: as the former were fuppofed to prefide over houlekeeping, the fervants in families, and domeftic affairs; and the latter were the protectors of the malters of families, their wives and children. Accordingly the Lares were drefled in thort fuccinct habits, to fhow their readinefs to ferve; and they held a fort of cornucopia in their hands, as a fignal of hofpitality and good houfekeeping. According to Ovid, there were generally two of them, who were fometimes reprefented with a dog at their feet.

Plutarch diflinguifhes good and evil Lares, as he had before done good and evil Genii. There are alfo fome public, orhers private Lares.

Apuleius tells us the domeftic Lares were no more than the fouls of departed perfons, who had lived well, and difcharged the duties of their flation; whereas thofe who had done othernife, were vagabonds, wandering abolt and frightening people, called Larva and Lemures.

The Lares were alfo called Perates, and were worfhipped under the figures of little marmoufets, or inages of wax. filver, or earthen ware.

The public Lares were alfo called Conpitales, from compitum " a crofs way;" and Viales, from via "a way or public road;" as being placed at the meetings of roads and in the high ways, and efteemed the patrons and rrotectors of travellers.

Their private Lares took take of particular houfes
and families: thefe they alfo called Praffiles from La procfo;

Vuod preflant oculis omnia tuta fuis. Ovid. Far. They gave the name Urbani, i. e. "Lares of cities," to thofe who had cities under their care ; and Hofilii, to thole who were to keep their enemies off. There were. alfo Lares of the country, called Rurales, as appears by feveral antique infcriptions.

The Lares were alfo genial gods, and were fuppofed to take care of children from their birth. It is for this reafon that when Macrobius tells us the Egyptians had four gods who prefided over the births of children, viz. the Genius, Fortune, Love, and Neceffity, called priceflites, fome interpret him as if he had faid the E. gyptians had Lares; but they have mentioned that there was a great difference between the Lares of the Romans and the Præitites of the Egyptians. However, the learned Mr Bryant affirms that they were the fame.

The ancients differ extremely about the origin of the Lares. Varro and Macrobius fay that they were the children of Mania; Ovid makes them the iffue or Mercury, and the Naiad Lara or Larunda; A puleius affures us they were the poiterity of the Lemures; Nigridius, according to Amobius, made them fometimes the guardians and protectors of houfes, and fometimes the fame with the Curetes of Samothracia, which the Greeks call Idaci dactyli. Nor iras Varro more confiftent in his opinion of thefe gods; fometimes making them the manes of heroes, and fometimes gods of the air.
'T. Tatius king of the Sabines was the firft who built a temple to the Lares. The chimney and fireplace in the houfe were particularly confecrated to thens.

Tertullian tells us the cuftom of worfhipping the Lares arole from this, that they anciently interred their dead in their houfes; whence the credulous people took occafion to imagine their fouls continued there allo, and proceeded to pay them divine honours. To this it may be added, that the cuftom being afterwards introduced of burying in the high ways, they might hence take occafion to regard them as gods of the high ways.

The victim offered to the Lares in the public facrifices was a hog: in private, they offered them wine, incenfe, a crown of wool, and a little of what was left at the table. They alfo crowned them with flowers, particularly the violet, myrtle, and rofemary. Their fymbol was a dog, which was ufually reprefented by their fide, on account of its fidelity and the fervice it does to a man in watching bis houfe. They were fometimes allo reprefented as clothed in a dog's fkin.

The term Lares, according to Mr Bryant, was formed from laren, an ancient word by which the ark was reprefented: and he fuppofes that the Lares and Manes were the fame domeftic deities under different names; and that by thefe terms the Hetrurians and Latins denoted the dii arkita, who were no other than their arkite anceftors, or the perfons preferved in the laren or ark; the genius of which was life, the reputed parent of the world. He obferves farther, that they are defcribed as dxemons and genii, who once lived on earth, and were gitted with immorality. Arno-

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bius flyles them Lares p:ofdam genios et functoram animas; and he fays, that according to Varro, they were the children of Mania. Huetius (Demonit. Prop. iv. p. 139.) adds, that Mania had alfo the name of Larunda; and the is styled the mother of the dxmons. By fome the is called Lara, and was fuppofed to prefide over families; and children were offered at her altar in order to procure her fawour. In lieu of thele they in after times ofiered the heads of poppics and pods of garlic.

LARGE, a fea term applied to the wind when it croffes the line of a fiés's courfe in a favourable direction, particularly on the beam or quarter. Thus, if a thip lleer welt, then the wind in any point of the compals to the eaftward of the fouth or north may be called large, unlefs when it is directly eaft, and then it is faid to be right aft. Sailing large is, therefore, advancing with a large wind, fo as that the theets are flackencd and flowing, and the bow lines entirely difufed. Ihis phrafe is generally oppofed to failing clofe hauled.

## LARGESS. See Largitio.

LARGI $I O$, in Roman antiquity, was a diftribution of corn, provifion, clothes, money, \&c. to the people. Gracchus, when tribune, to make himfelf popular, paffed a law for fupplying the Roman citizens with corn at a very low rate, out of the public granaries. Claudius, another tribune, with the farpe views to popular applaufe, procured it to be diftributed gratis. -Cato, to win the common people from Cæfar, perfuaded the fenate to do the fame, and 300,000 citizens fhared in the dillribution. Cæfar, after his triumph, extended his bounty to 150,000 , giving them each a mina. The Roman emperars enlarged ftill further the lift of thofe who were to partake of their diftributions. Largitio is frequently taken in a bad fenfe, to fignify a mafked bribery; whereby candidates purchafed votes, when they flood for places of honour or truft in the fate. The diftribution of money was called congiari$u m$, and the diftributors divifores and fequeflres.

LARGS, a village on the weft coaft of Scotland, oppofite to the illand of Bute; rendered memorable by the defeat of the Norwegians here in their laft invafion of this country.-This invafion was made in the year 1263, with a fleet of 160 fail and an army of 20,000 men, commanded by Haquin king of Norway, whofe ravages on the coaft of Ayr, Bute, and Arran, reaching the Scotiifh court, an army was immediately affembled by Alexander III, and a bloody engagement enfued at this village, when 16,000 of the invaders were flain in the battle and flight, with 5000 Scots. Haquin efcaped to the Orkneys, where he foon after died of grief. The intrenchments of the Norwegian camp may ftill be traced along the fhore of this place. The Scottifh commanders who fell in battle were buried in a rifing feld, near the village; three or four perfons were interred in one grave, on each fide of which was a large flone, a third was placed acrofs the grave, fupported at the extremities by the fide fones, and in this rude manner the warriors lay entombed. Some years ago the proprietor of the field demolifhed thefe repofitories of the dead, leaving only one (a Special favour !) which ferves to give an idea of the whole.

VoI. XI. Patt II.

LARINO, a town of Italy, in the kingdom of Latiau Naples, in the Capitanata, with a bilhop's fee. E. Long. 15.51. N. Lat. 4 t. 48.

LARISSA, an ancient, ricl, and celcbrated town of Greece, in the province of Janna or Thellaly, with an archbithop's fee of the Greck church, a palacc, and feveral handfome mofques. According to Viryil, it was the country of Achilles. It was alfo the place where Philip the father of Alexander the Great relid-ed.-'The inhabitants carry on a confiderable trade. The city is agrechbly fcated on the river Peneus, ia E. Long. 23. 36. N. Lat. 38. $5^{1 .}$

LarlX, the larch trfe.. See Pinus, Botans Index:

LaRK. See Alauda, Orvithology Index, and Bird-Catcling.

The lark is not only a very agreeable bird for the cage, but will live upon almatt any food, fo that it have once a-week a frefts tuft of three-leased grafs, The proper method of keeping them in health is this: there mult be two pans of food, the one containing meat, the other oat meal and hempleed. A very good food is the following: boil an egg very hard, to which add the crumb of a halfpenny loaf, and as much hempfeed: let the egg be chopped very fmall, and the hempfeed bruifed in the mortar; when thefe are mixed, the bread is to be crumbled io among the reft, and the whole to be rolled together with a common rolling pin, and kept for ufe. There mult be fome fine fmall gravel ftrewed at the bottom of the cage, and renewed at fartiselt once in a week. This will prevent the bird's feet from getting hurt by being clogged with the dung; and his baking in this will keep lim alfo from growing loufy, after which few come to good. There muft be a perch in the cage, and it muft either bc lined with green bays, or made of fine matting, which the lark is very fond of. When the bird is firlt taken, fome meat muft be ftrewed upon the fand in the bottom of the cage; for it will be fometimes almolt familhed before it funds the meat in the pan.

The cock bird of this kind is known from the hen by the loudnefs and length of his call, by his tallnefs as he walks about the cage, and by his doubling his notes in the evening, as if he was going with his mate to rooft. A better rule than all others, however, is his finging flrong; for the hen wood lark lings but very weakly.- Both the cock and hen of this kind are fubject to many difurders; the principal of thefe are cramps, giddinefs of the licad, and breeding lice. Cleanlinefs is the beft cure for the firft and the laft of thefe complaints; but we know of no cure for the otber. A good flrong bird, however, will often laft very well five or fix years, and improve all the time.

LARKSPUR. See Delphintum, Botany Index.
LARMIER, in Architecture, a tlat fquare member of the cornice below the cimafum, and jets out fartheft; being fo called from its ufe, which is to difperfe the water, and caufe it to fall at a diflance from the wall, drop by drop, or as if by tears, the French word larm, fignifying a tear.

LARRIBUNDAR, a fea port town of Afia, in Indoltan; feated at the mouth of the river Sind:a, or Indus, with a harbour capable of receiving hips of 4 B

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Laria 200 tons burden. It is but a fmall place, confifing of aliout 100 houfes brilt of wood; but has at fone fort, with a fer guns. E. Long. 67.0. N. Lat. 25.0.

LARV゙A, in Natural Hiffory, a name given by Linneus to infucts in that llate, called by other writers cruca or caterpillar. Sce Extomology Index.

LARVE, in antiquity, derived from the Hetrufcan word lar or lars, fignifying "prince or lord," denoted the ghofts of the deceafed, coufidered as wicked and milchieveus. Hence is formed the term larvatus, i. e. larvấ indutus or demioniac. The ingenious Mr Farmer urges the etymology and ufe of this term to prove, that the neathen demons were luman ghofts.- The larvie were allo called lembires.

LAKUS, the GUri, a genus of birds belonging to the order of anferes. See Ornitholagy Index:

LARYNX, in Anatomy, the upper part of the windpipe. Sce Avatomy, $\mathrm{N}^{0}{ }^{116}$.

LASCARIS, (Axdrew Johis, furnamed Ryndacenus, of an ancient Gretk family, went into Italy, after the taking of Confantimple by the Turks in ${ }^{1} 453$. He was well received by Laurnce de Medicis, a diffinguifhed protector of learued men; and was twice !ent to Conftantinople to collect the bett Greek manuferipts, by which means numberlefs fearce and valuable trea. fures of literature were carried into Italy. At his return, levuis XII. king of France prevailed on him to fettle in the univerfity of Paris, and fent him twice ambaffiador to Venice. Ten years after, Cardinal John de Meaicis being elected pope, under the name of Leo X. John Lafcaris, his old friend, went to Rome, and had the direstion of a Greek college. He died at Rume in 1535 , at about the 90 th year of his age. He brought into the weft moft of the fine Greek manufrripts that are now extant, and compofed fome epigrams in Greek and Latin.

Lascaris, Confiantine, one of the Greeks who were principally concerned in the revival of learning in the Weft, retired into Italy in 1454, and taught polite literature at Mitan, whither he was called by Francis Sforza; he afterwards went to Rome, where he was well received by Cardinal Beffarion. He afterwards taught rhetoric and the Greek tongue at Naples; and ended his days at Meflina, leaving the fenate of that city many excellent manuferipts which he had brought from Conftantinople. He was interred at the public expence, and the fenate of Meffina erected a marble tomb to his memory. He wrote fome grammatical works.

LASERPITIUM, LAZAR-wort, a genus of plants belonging to the pentandria clafs; and in the natural mettiod ranking under the 45 th order, Umbellatic. See Botany Index.
I. $A S H$, or Lace, in the fea language, fignifies to bind and make faft; as, to lafh the bonnet to the courfe, or the drabbler to the bonnets; alfo the carpenter takes eare that the fare yards be lafhed fant to the thip's fide; and in a rolling fea, the gunners mind that the guns be well laftied, left they fhould break loofe. Laflers are properly thofe ropes which bind fort the tackles and the breechings of the ordthance, when hauled or nade falt within board.

LASSITUDE, or Weariness, in Medicine, a morLid fenfaticn, that comes on fpontaneoufly, without any previous motion, exercife, or labour. This is a
frequent fymptom in acute diftempers: ir arifes either from an increafe of bulk, a diminution of proper evacuation, or too great a confumption of the Aluids necellary to maintain the fpring of the folids, or from a vitiated fecretion of that juice.

LASSUS, or Lasus, a dithyrambic poet, born at Hermione in Peloponnefus about 500 years before Chritt. He is reckoned among the wife men of Greece by fome. He is particularly known by the anfwer he gave to a man who afked him what could beft render life pleafant and comfortable? Experience. He was acquainted with mufic. Some fragments of his poetry are to be found in Athemaus. He wrote an ode upon the Centaurs, and a hymn to Ceres, without isferting the letter $S$ in the compolition.

LAS" F , in general, fignifies the burden or load of a thip. It fignifies alfo a certain meafure of fifh, corn, wool, leather, \&c. A laft of codifill, white herings, meal, and ahes for foap, is twelves barrels; of corn or rapefeed, ten quarters; of gunpowder, twenty-four barrels; of red herrings, twenty cades; of hides, twelve dozen; of leather, twenty dickers; of pitch and tar, fourteen barrels ; of wool, twelve lachs; of flock fifh, one thoufand; of flax or feathers, $1,7001 \mathrm{~b}$.

LASTAGE, or Lestagf, a duty exafted in fome fairs and markets, for carrying things bought whither one will. It fignifies alfo the ballaft or lading of a flip; and fometimes is ufed for garbage, rubbiill, or fucl like filth.

LATERAN was originally the proper name of a man; whence it defcended to an ancient palace in Rome, and to the buildings fince erected in its place; particularly a church called St Yohn of Lateran, which is the principal fee of the popedom.

Councils of the Lateran, are thofe held in the bafilica of the Lateran; of thefe there have been five, held in $1123.1159,1179,1215$, and 1513.

Canons Regular of the Congregation of the Lateras, is a congregation of regular canons, whereof that church is the principal place or feat.

It is pretended there has been an uninterrupted fueceffion of clerks, living in community from the time of the apoflles: and that a number of thefe were eftablifhed in the Lateran in the time of Conflantine. But the canons were not introduced till the time of Leo I. and thefe held the church 800 years, till the reign of Boniface, who took it from them, and placed fecular canons in their room: 150 years after, the regulars were reinftated.
$A$ LATERE, a term ufed to denote the qualifications of the cardinals whom the pope fends as legates into foreign countries. They are called legates à latere, as being his holinefs's affiftants and counfellors in ordinary. Thefe are the molk confiderable of the other three kinds of legates, being fuch as the pope commilfions to take his place in councils; and fo called, in regard that he never gives this office to any but his favourites and confdants, who are always $\grave{a}$ latere, at his fide. A legate à latere has the power of conferring benefices without a mandate, of legitimating ba1lards to hold offices, and has a coofs carried before him as the enfign of his authority.

De Latere, legates who are not cardinals, but yet are intrulted with an apofolical legation. See the article Legate.

LATE-wafe,

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didynamia clafs; and in the natural method ranking Lathreve under the 40 th order, Perfonatio. See Botany Index.

LATHREVE, Lfidgreve, or Trithengreve,
Latumer. was an officcr under the Saxun government, who had authority over a third part of the county; and whofe territury was therefore called trithing, otherwife a leid or leithin, in which manner the county of Kent is ftill diviced; and the rapes in Suffex feem to anfwer tu the fame. As to the jurifdiction of this officer, thofe matters that could not be determined in the hundred court, were thence brought to the trithing; where all the principal men of the three or more hundreds being affembled by the lathreve, or trithingrere, did debate and decide it ; or if they could not, then the lathreve fent it up to the county court, to be there finally determined.

LATHYRUS, chicklisg, a genus of plants belonging to the diadelphia clafs; and in the natural method ranking under the $3^{2 d}$ order, Papilionacea. See Botany Index.

LATIAR, in Roman antiquity, a fealt or ceremony inftituted by Tarquinius Superbus, in horour of Jupiter Latiaris or Latialis.- Tarquin having nade a treaty of alliance with the Latins, propofed, in order for perpetuating it, to erect a common temple, where all the allies, the Romans, Latins, Hernici, Volfci, \&c. fhould affemble themfelves every year, hold a kind of fair, exchange merchandifes, feati, facrifice, and make merry together. Such was the inftitution of the Latiar. The founder only appointed one day for this featt: the firt conful added another to it, upon concluding the peace with the Latins; and a third was added after the people who had retired to the Mons Sacer were returned to Rome; and a fourth, after appealing the fedition raifed on occation of the plebeians afpiring to the confulate.

Thefe four days ware called the Latin ferice; and all thinzs done during the courle of the feriæ, as feafts, facrifice=, offerings, \&c. were called Latiares.

LATICLAVE, (Laticlavium), in Roman antiquity, was an honourable diftinction, peculiar, in the times of the republic, to the renators; but whether it was a particular kind of garment, or only an ormament upon it, the critics are not agreed: But the more general opinion is, that it was a broad Aripe of purple fewed upon the fore patt of their tunic, and round the middle of the breall. There were buttons fet on the latus clavus or laticlave, which appeared like the heads of large nails, whence fome think it derived its name. -The fenators, pretors, and chief magitrates of colonies and municipal cities had a right to wear it. The prætexta was always worn over it; but when the prator pronounced fentence of death, the pretexta was then put off and the laticlave retained. The laticlavium differed from the anguficlavium, but authors do not agree in what this difference confifted; the molt general opinion feems to be, that the flips or ftripes of purple were narrower in the angufticlave.

LATlMER, HuGh, bithop of Worcefter, was bom about the year 1480 at Thurcafton in Leicefterfhire, the only fon of a yeoman of that village. A: the age of fourteen he was fent to Chrifl's college, Cambridge, where he applied himfelf to the ftudy of divinity, and in proper time took the degree of bachclor in that fcience. At this time he was a zealous.

Latiner, Papill, and was honoured with the onlice of keeper of Lat:n. the crofs to the univerfity : but when he was about
thirty ycars of age, he became a convert to the Protelant icligion ; and being now one of the twelve licenfed preachers from Cambridge, he promulgated his opiniuns with great freedom. It was not long before he wias accufed of herefy; and being fummoned before Cardinal Wolfey, was ubliged to fubicribe certain articles of faith, which he eertainly did not believe. About the year 1529 he was prefented by the king to the rectory of Weftkinton in Wiltthire; to which place, after refiding fome time at court with his friend and patron Dr Butts, he retired; but refuming his former invectives againft the Popih doctrines, he was again fumrioned to anfwer eertain interrogatories, and rgain obliged to fubferibe. In 1535 he was promoted to the billopric of Worcefter; in the polfefion of which dignity he continued till the year 1539 , when, xather than affent to the ad of the fix articles, he refigned his mitre, and retired into the country; but was in a thort time accufed of Cpeaking againft the lix articles, and committed to the Tower, where he continued prifoner till the death of Henry VIII, which happened in January 2547 . On the acceffion of Edward VI. Latimer was releafed, but not reftored to his bilhopric, though he preached feveral times before the king, and continned to exercife his minifterial function with unremitting zeal and refolution. Young Edward, alas! finilhed his flort reign in 1553; and Mary, of infamous memory, afcend ng the throne, poor Latimer was immediately doomed to deftruction, and, together with Cranmer and Ridley, confined in the Tower. In April 1554, they were removed to Oxford, that they might difpute with the learned ductors of both univerfities. Latimer declining the difputation on account of his great age and infirmities, delivered his opinion in writing; and refufing to fublcribe the Pupifh creed, was condemned for herefy; and in October following was, logether with Bihop Ridley, burnt alive. He behaved with uncommon fortitude on the occafion, and died a real martyr to the Reformation. His general character is that of a learned, virtuous, and brave man. His works are, 1. Sermons, 1635. fol. 2. Letters; in Fox's Acts and Moruments, vol.ii. fol. 1:80. 3. An Injunction to the Prior and Convent of St Mary's in Woreefterthire. See record at the end of Burnet's Hiftory of the Reformation, part ii. p. 293.

LATIN, a dead language, firf fpoken in Latium, and afterwards at Rome ; and flill ufed in the Romifh church, and among many of the learned.

This language is principally derived from the Greek, and particularly from the Eolic dialect of that tongue, nough it has a great number of words which it bor1owed from the languages of the Etrufci, Ofci, and other ancient people of Italy; and foreign commerce and war", in courfe of time, added a great many more.

The Iatin is a frong nervous language, perfectly fuitable to the eharacter of the people who fooke it: we have fill works of every kind admirably well written in the Latin, though there are vaft numbers loft.

The Latin tongue was for a while confined almoft wholly within the walls of Rome; nor would the Romats.allow the common ufe of it to their neighbours, yor to ilve nations they fuldaed: but by degrees they
in time became fenfible of the neceflity of its being generally underfood for the conveniency of commerce; and accordingly ufed their endeavours, that all the nations fubject to their empire thould be united by one common language; fo that at length they impored the ufe of it by a particular law for that purpofe. After the tranflation of the feat of the empire from Rome to Conitantinople, the emperors of the ealt, being always defirous of retaining the title of Roman emperors, appointed the Latin to be flill uled; but at length neglecting the empire of the weft, they abandoned all care of the Latin tongue, and ufed the Greek. Charlemagne coming to the empire of the weft, revived this language ; but at length it gave way, and the Erench took place of the Latin; it was, however, prodigioufly degenerated before it came to be laid afide, in which condition it was found at the time of the Reformation, when Vives, Erafmus, \&c. began to open the way for its recovery: fince which time the monkifh latinity has been declining, and all endeavours have becn ufed to retrieve the pure language of the Auguftan age. Sce Ianguage.

## Latin Church. See Churcia.

L.ATINS, an ancient nation of laly. See LaTiUM.

LATINUS, king of the Latins in Italy, was the fon of Faunus; and, it is faid, began to reign about the 1216 th year before the Chriltian era. Lavinia, his only daughter, married Eneas, after that Trojan prince had killed Purnus king of the Rutuli. See Rome.

LATISSIMUS, in Anatomy, the name of Ceveral mufcles. See Avatony, Table of the Mufcles.

LATITUDE, in Afronomy, is the difance of a flar torth or fouth from the ecliptic. In geography it fignifies the difance of any place north or fenth from the equator. See Astronomy, and Geography, palfim.

LATITUDINARIAN; a perion of maderation with regard to religious opinions, who believes there is a latitude in the road to heaven, which may admit people of different perfuafions.
L.ATIUM, in Ancient Geography, the country of the Latins, at firft contained within very narrow bounds, but afterwards increafed by the acceffion of various people. The appellation, acording to Virgil, is ì latendo, from Saturn's lying hid there from the hoflile purfuits of his fon Jupiter; and from Latium comes the name Latini, the people. (Virgil): though Dionyfius Halicarnafitus derives it from King Latinus, who reigned about the time of the Troian war. But whatever be in this, it is certair, that Latium, when under AEneas and his defcendants, or the Alban akings, contained only the Latins, exclulive of the Æiqui, Volfci, Hernici, and other people; only that ÆEneas reckoned the Rutuli, afier their conqueft, among the Latins. And this conflituted the ancient Latizm, confined to the Latins; but afterwards, under the kings, and after their time, it reached from the Tiber to Circeii. Under the confuls, the country of the Equi, Vulfci, Hernici, \&cc. after long and bloody wars, was added to Latimm, under the appellation adjectitious or fuperadded Latium, as far as the rirer Liris, the eal?ern boundary, and to the nort! as far as the Marli and Sabince. The various people, which in fucceffion occu-

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jtmus pied Latium, were the Aborigine, the Pelafgi, the yond Circeii, the Vollci, the Ofci, the Aufones: but who firt, who next, occupied the country, it is difficult to fay.

LATMIUS, in Ancient Geography, a mountain of Ionia, or on the confines of Caria, famous for the fable of Endymion, of whom the Moon was faid to be eriamoured : hence called Latmius Heros, and Latmius Ve. nator. In the mountain was a cave in which Endymion dwelt (Scholiaft on Apollonius Rhodius). Suppofed by Hecatex to be the Phitheiron Alons of Horocr; but by others to be Grius Mons, not far from Latmus (Strabo.)

LATOMIA, properly fignifies a fone quarry: But the places whence fones had been dug having been made ufe of fometimes as dungeons, jails, or prifons for criminals, it is oftentimes applied as a name for a prifon. There was a place of confinement of this fort at Rome, near the Tullianum ; another at Syracufe, in which Cicero fays Verres had thut up Roman citizens.
L.ATONA, in Mythology, a Pagan goddefs, whofe hiftory is very obfcure. Hefiod makes her the daughter of Titan Coëus and Plnebe his filler. She was admired for her beauty, and celebrated for the favours which fhe granted to Jupiter. Juno, always jealous of her hufband's amours, made Latona the object of her vengeance, and fent the ferpent Python to difturb her peace and perfecuie her. Latona wandered from place to place in the time of her pregnancy, continually alarmed for fear of Python. She was driven from heaven; and Terra, influenced by Juno, refufed to give her a place where the might reft and bring forth. Neptune, moved with compafion, fruck with his trident and made immoveable the ifland of Delos, which before wandered in the $\not$ Egean, and appeared fometimes above, and fometimes below, the furface of the fea. Latona, changed into a quail by Jupiter, came to Delos; where the refumed her original thape, and gave birth to Apo!!o and Diana, leaning againft a palm tree or an olive. Her repofe was of thort duration : Juno difcovered the flace of her retreat, and obliged her to fiy from Delos. She wandered over the greatelt part of the world; and in Caria, where her fatigue compelled her to ftop, the was infulted and ridiculed by the peafants, of whom the alked for water while they were weeding a marth. Their refufal and infolence provoked her, and flie entreated Jupiter to purifh their barbarity. They were all changed into frogs. She was alfo infulted by Niobe ; who boafted herfelf greater than the mother of $A$ pollo and Diana, and ridiculed the prefents which the picty of her neighliours laad offered to Latona. At laft, Latona, though perfecuted and expofed to the refentment of Juno, became a powerfuldeity, and faw her children rccei:e divine honours. Her worlhip was generally cftablithed where her children received adoration; particilarly at Argos, Delos, \&cc. where the had tem. phes. She had an cracle at Eypypt, celebrated for the tiue and dicifive aufwers which it gave. Latona, Vesuls, and I na, were the three goddefics moft in vencration among the Roman women.
LATR1A, in Theology, a relicio"s workip duc onJy to God. See Adoratien.

The Romanilts fay, "They honour God with the worthip of latria, and the faints with the worhhip of dulia." But the terms, however difinct, are ufually confounded.

The worthip of latria, befides its inner characters, has its external marks to diftinguifl it ; the principal whereof is facrifice, which cannot be offered to any other but God himfelf, as being a folemn acknowledgement or recognition of the fovereignty of God, and our dependence on him.

Mr Daille feems to own, that fome of the fathers of the fourth century allowed the diftinction between latria and dulia.

LATRIN/E, were public houfes of office, or neceffaries, amongft the Romans. We do not find, in the writings or buildings that remain of antiquity, that they had any privies in their dwellings. The latrinz were public p!aces where the flaves wathed and emptied their matters clofe ftools. We are pretty well affured that the Romans had public places of convenience, which were covered over, and had a fponge hanging up in them for cleanlinefs. Rich men had clofe ftools, which were taken away occafionally to the common fewers.

LATRUNCULI, a game amongt the Romans, of much the fame nature with our chefs. The latraiculi were properly the chefs men, called alfo latrones and calculi. They were made of glafs, and difinguithed by black and white colours. Sometimes they were made of was or other convenient fubftances. Sonse give the invention of this game to Palamedes when at the fiege of Troy: Seneca attributes it to Chilon, one of the feven Grecian fages; others honour Pyrrhus with the invention; and others again contend that it is of Perfian origin-but is not this Lis do lana capr:$n a$ ? Frequent allufions to this game are met with in the Roman clafics, and a little poem was written upon it, addrefled to Pifo, which fome fay was the work of Ovid, others of Lucan, in the end of fome editions of whofe works it is to be found, and to which we refer for a fuller account of the game. This game cxprefies fo well the chance and order of war, that it is, with great appearance of probability, attributed to fome military officer as the inventor. One Canius Julius was fo exceedirigly fond of chefs, that after he was fentenced to death by Caligula, he was found playing, but interrupted in his game by a call to execution; he obeyed the fummons, but firlt defired the centurion who brought the fatal order, to bear witnefs that he had one man upon the board nore than his antagoniif, that he might not falfely brag of victury when he. thould be no more.

LATTEN denotes iron plates turned over, of which. tea canifters are made.
Plates of iron being prepared of a proper thinmefs, are fnoothed by rufting them in an acid liquor, as common water made earger with rye. Wish this liques they fill certain troughs, and then put in the plates, which they turn once or twise a-day, that they may be equally sufted over. After this they are taken out, and well fcoured with fand; and, to prevent their rufting again, are immediatcly plunged into pure water, in which they are to be left till the inflant they are to be tinaed or blanched; the manner of doing whic! is this: They flux the tin in a large iron crusible, which

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La:ten, has the fogure of an oblong pyramid with four faces, I. itimo. of which two oppofite ones are lefs than the two others.

The crucible is heated only from below, its upper part being luted with the furnace all round. The crucible is always deeper than the plates which are to be tinned are long; they always put them in downight, and the tin ought to fwim over them; to this purpore artiiscers of different trades prepare plates of different thapes, though Mr Reaumur thinks them all exceptionable. But the Germans ufe no fort of preparation of the iron to make it receive the tin, more than the keeping it ahrays fleeped in water till the time; only when the tin is melted in the crucible, they cover it with a layer of a fort of fuet, which is ufually two inches thick, and the plate muft pals through this before it can come to the melted tin. The firl ufe of this covering is to keep the tin from burning; for if any part thould take fire, the fuet would foon moiften it, and reduce it to its primitive flate again. The blanchers fay, this fuet is a compounded matter. It is indeed of a black colour; but Mr Reaumur fuppofed that to be only an artifice to make it a fecret, and that it is only coloured with foot or the fmoke of a chimney: but he found it true fo far, that the common unprepared fuet was not fufficient; for after feveral attempts, there was always fomething wanting to render the fuccefs of the operation certain. The whole fecret of blanching, therefore, was found to lic in the preparation of this fuet; and this at length he diicovered to confilt only in the firt frying and burning it. This fimple operation not only gives it the colour, but puts it into a condition to give the iron a difpofition to be tinned, which it does furprifingly.

The melted tin muft alfo have a certain degree of heat : for if it is not hot enough, it will not flick to the iran; and if it is too hot, it will cover it with too thin a coat, and the plates will have feveral colours, as red, blue, and purple, and upon the whole will have a calt of yellow. To prevent this, by knowing when the fire has a proper degree of heat, they might try with fmall pieces of iron; but, in general, ufe teaches them to know the degree, and they put in the iron when the tin is at a different flandard of heat, according as they would give it a thicker or thinner coat. Sometimes alfo they give the plates a double layer, as they would have them very thickly covered. This they do by dipping them into the tin when very hot the firft time, and when lefs hot the fecond. The tin which is to give the fecond coat muft be freft covered with fuet; and that with the common fuet, not the prepared.

Latten Brafs, plates of milled brafs reduced to different thicknefs, according to the ufes they are intended for.

LATTIMO, in the glafs trade, a name for a fine milk-white glafs. There are feveral ways of making it, but the beft of all is this: take 400 weight of cryftal frit, 60 pounds of calcined tin, and two pounds and a half of prepared manganefe; mix thefe well with the frit, and fet them in a pot in a furnace to melt and refine. At the end of 18 hours this will be purified; then caft it into water, purify it again afterwards in the furnace, and make a proof of it. If it be too clear, add 15 pounds more of calcined tin; mix it well with the metal, and let it fland one day to puri-
fy; it will then be of a whitenefs furpaffing even that Lotus of fnow, and is fit to work into veffels.

La'TUS Primarium, a righe line drawn through the vertex of the fection of a cone, within the fame, and parallel to the bafe.

Laqus Tranfuerfum of the hyperbola, is the right line between the vertices of the two oppofite fections, or that part of their common axis lying between the two oppofite cones.

LAVA, a ftream of melted minerals which runs out of the mouths, or burfts out through the fides, of burning mountains, during the time of an eruption. See Ætna, Vesuvius, Hecla ; and fee alfo Volcano, Gfolocy Index.
The lava at its firf difcharge is in a ftate of prodigious ignition, greatly fuperior to any thing we can have an idea of from the fraall artificial furnaces made by us. Sir William Hamiltor informs us, that the lava of Vefuvius, at the place whence it iffued (in the year $1^{1767}$ ), " had the appearance of a river of red hot and liquid metal, fuch as we fee in the glafs houfes, on which were large floating cinders half lighted, and rolling over one another with great precipitation down the fide of the mountain, forming on the whole a moft beautiful and uncommon cafcade." Now, if we confider the materials of which the lava confifts, which undoubtedly are the common matters to be found everywhere in the earth, namely, llones, metallic ores, clay, fand, Sic. we fhall find that our hottelt furnaces would by no means be able to bring them into any degree of fufion; fince the materials for glafs cannot be melted without a great quantity of very fuible falts, fuch as alkalies, nitre, \&c. mixed along with them. The heat of a volcano mult therefore be immenfe; and belides its heat, it is fometimes attended with a very uncommon circumflance; for Sir Exceffir William Hamilton informs us, that "the red hothea: of flones thrown up by Vefuvius on the 3 Ift of Marchlavas. 1766, were perfectly tran/parent;" and the like remark he makes on the vaft fream of lava which iffued from the fame volcano in 1779. This we cannot look upon to be the mere effect of heat; for mere heat with us will not make a folid body tranfparent; and thefe ftones, we are fure, were not in a fate of fufion, or the refiftance of the air would have broke them all to pieces, even fuppofing them, which is rery improbable, to have been in that flate detached from the reft of the lava. For the tranfarency, therefore, (ascording to fome authors) we muft have recourfe to electricity; which in fome of our experiments hath the property of rendering opaque bodies tranfparent *. Indeed it is fcarcely *See $E$, poffible but the lava and every orher matter thrown out fricity 1 of a volcano mult be in the bigheft degree electrical, ii ${ }^{\text {dem. }}$ the fire itfelf take its rife from electricity.

The lava, afier having once broke out, does not lrobabl ${ }^{2}$ conflantly continue running from the fame vent, but in a hig. often has intermiffions, after which it will burlt out ele $\frac{1}{2}$, fometimes at the fame place, and fometimes at another. No real flame ever appears to come from the lava. In the day time its progrefs is marked by a thick white fmoke, from whicla the light of the red hot mat+ren ter being refiected in the night time, makes it appear ancelike flame. But if, during its progrefs, it meets with trees or other combuiftible fubfances, which it frequently does, a bright thame immediately ifiues from

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-ra. its furface, as hath alfo been remarked by Sir William Hamilon, - This liquid fuefance, after having run pure for about ioo yards (more or le ${ }^{\text {se, }}$ no doubt, according to different circumitances), begins to collect cinders, llories, and a foum is formed on the furface. Our author informs us, that the lava which he ob!erved, with its foum, had the appearance of the river Thames, as he had feen it after a hard frolt and a great fall of fnow, when beginning to thaw, carrying down vaft males of frow and ice. In rome places it toialls difappeared, and ran in a fubterzancous paffage formed by the foum fur feveral paces; after which it came out pure, having left the foum behind, though a new one was quichly formed. This lava at the fartheit cxtremity from its fource did not appear liquid, but like a heap of red-hot coals, forming a wall in fome places 10 or 12 feet high, which rolling from the top foon formed another wall, and fo on.-This was the appearance alfo put on by the lava which iffued in the great eruption of $1>83$ in Iceland; with this difference, that the wall was at one time 210 fcet high, and the general thicknefs of it was more than 100: (See Hectat). While a lava is in this !tate, Sir William is of opinion, that it is very practicable to divert it into another chanuel, in a manner fomenlat fimila: to what is practifed with rivers. This he was afterwards :old had been done with fuccefs during the great eruption of Etna in 1669 : that the lava was directing its courfe towards the walls of Catania, and advancing very flowly, when they prepared a channel for it round the walls of the town, and turned it into the fea. A fucceffion of men, covered with theep fkins wetted, were employed to cut through the tough flanks of lava, till they made a paffage for that in the centre, which was in perfect fufion, to difgorge itfelf into the channel prepared for it. But this, it is evident, can only take place in fmall fteams of this buming matter; with that above mentioned it would have been impoffible. It hath been alfo obferved of the lavas of Etna, that they do not conflantly fall down to the lowe eft places, but will Cometimes afcend in fuch a manner as to make the valleys rife into hills. On this Sir William Hamilton has the following note: "Having heard the fame remark with regard to the lavas of Vefuvius, I determined, during an eruption of that volcano, to watch the progre's of a current of lava, and I was foon enabled to comprehend this feeming phenomenon, though it is, I fear, very difficult to explain. Certain it i, that the lavas, while in their moft fluid fate, folJow always the laws of other fluids; but when at a great difance from their fource, and confequently encumbered with fcorise and cinders, the air likewife having rendered their outward coat tough, they will fometimes (as I have feen) be forced up a fmall afcent, the frefh matter pufhing forward that which went before it, and the exterior parts of the lava acting always as conductors (or pipes, if I may be allowed the expreffion) for the interior parts, that have retained their luidity from not being expoled to the air."

From the year 1767 to 1779 , this gentleman made many curious obfervations on the lavas of Vefuvius. He found, that they conftantly formed channels in the mountain as regular as if they had been made by art ; and that, whilft in a flate of perfect fufion, they sontinued their coure in thore channels, which were
fometimes full to the biim, and at others more or jefs liasa. fo according to the quantity of matter thrown out." - Thefe channels, af:er fmall eruptions, were gencrally fron two to five or fix feet wide, and feven or eight in depth. They were often hid from the fight liy a quantity of fcorix thet ind formed a crull over them, and the lava, having been conveged in a covered way fur fome yards, came nut again frefle into an oper channel. Our author informs us, that he had walked in fome of thefe fubterrantous galleries, which were cxceedingly curious, the fides, top, and bottom, being exceedingly fmooth and even: others were incruiled with what he calls very extraordinary fcorix, beau:ifully ramified white falts in the form of dropping ftaJactites, \&c.

On viewing a ftream of lava while in its fluid fate in the month of May 1779, he perceived the operation of it in the channels above defcribed in great perfection. After quitting them, it fpread itfelf in the valley, aud ran gently like a river that had been frozen, and had mafies of ice Hoating upon it. The wind happening then to diff, cur traveller was fo inconnoded by the froke, that the guide propofad to crofs it, which was inffantly put in execution without any otler inconvenience than the riolent heat with which the legs and feet were affected. The crult was fo tough, that their weight made no impreffion upon it, and the mution fo llow that they were in no dariger of falling. This circumftance, according to Sir William, points out a method of efcape fhould any perfon happen to be enclofed betwist two lavas, but ought never to be tried except in cafes of real neceffity; and indeed, if the current of melted matter was very broad, mult undoubtedly be attended with extreme danger, both from the heat of the upper cruft and the chance of its breaking and falling down with the paffenger into the burning liquid below. That which Sir William Iamilton crolled was about 50 or 60 feet broad.

Having paffed this burning fream, our travellers walked up along the fide of it to its very fource. Here they faw it boiling ard bubbling violently up out of the ground, with a hiffing and crackling noife like that which attends the playing of an artificia! fire work. A hillock of about 15 feet high was formed by the continual fplathing up and cooling of the vitrifed matter. Under this was an arched hollow, red hot within, like a heated oven; the lava which ran from it being received into a regular channel raifed upon a fort of wall of fcorix and cinders, almoft perpendicularly, of about the height of 8 or 10 feet, and much refembling an ancient aqueduct. On quitting this fountain of lava, they went quite up to the crater, where as ufual they found a little mountain throwing up ttones and red hot โcorir with loud explofions; but the fmoke and fmell of fulphur were fo intolerable, that they were obliged to quit the place with precipitation.

By the great eruption in Auguft 1779, the curious channels above mentioned were entirely deflroyed, the cone of the mountain was covered with a fratum of lava full of deep cracks, from whence continually if fued a fulphureous fmoke that tinged the fcorix and cinders with a deep yellow, or fometimes white tint. The lava of this eruption appeared to be more perfectly vitrified than that of any former one he had ob:-
feryed.
maffes, fomewhat refembling planks; each two feet thick and twelve or fifteen in breadth, continued in a traight line through the whole of that foace. At the fame time by the action of the lava a kind of walls had been formed, from ten to fixteen fect in height, and curved at the top. Some of thefe walls appear rolled together like paper ${ }^{\text {n and }}$ M. Houel is of opinion, that thefe various appearances on the furface of the lava when cooled, mult have arifen from particles heterogeneous to the real lava; and which detach themfelves from it, rifing to the furface under a variety of forms proportioned to the fpaces of time taken up in cooling. Thefe crufts are formed of different kinds of fcorice and dirty lava, mixed with fand or athes. At the fame place are allo found great numbers of fmall pieces like thole of ice heaped upon one another after having Iloated for fome time on a river. Bencath thefe the pure lava is met with, and which has evidently been in a flate of perifet fufion. This is extremely denfe; and by looking narrowly into its chinks, the compofition of the whole appears to be merely homogeneous. "It is curious (fays he) to obferve, fo near one feccies of lava which is very pure, another which has likewife arrived at the fame place in a huid ftate, and has there undergone fo great a change as fcarce to retain an appearance of its original flate. It is, however, like iron drofs, in grains of unequal fizes. We find it alfo at various dittances, fuch as one, two, or more hundred fathoms. It is fometimes found in large pieces like tables, covered over with tharp points, fome longer and others floorter. All thefe pieces are quite detached from one another, as if they had been brought thither and fcattered from a tumbril. The matter of which the cruft of the lava is formed, feems to have iflued from it in the fame manner in which froth rifes upon folution of foap in water. It appears afterwards to have fwelled, burft, and aflumed its prefent ferm, prefenting to the view various faces filled with fmall loofe flones. A great number of new lavas were likewife obferved, all of them putting forth various kinds of efflorefcences in great quantity.

The hardnefs, denfity, and folidity of lavas, no doubt proceed from the degree of heat to which they have been expofed, and which feems to be greater or lefs according to their quantity. Hence the Icelandic volcanoes, which pour forth the greateft quantities of lava, produce it alfo in the greateft degree of liquefaction, and Dr Van Troil obferves, that what he fawr maif have been liquefied to an extreme degree.

The compofition of the lavas of different volcanoes, Obferva and even of different parts of thofe of the fame volcano, tiors ent is extremely different. Sir William Hamilton is of dufferent opinion that this difference in compofition contributes componf not a little to the facility or difficulty with which they $y_{\mathrm{v} *}$ by s afterwards receive earth capable of vegetation. "Some W. Han (fays he) have been in a more perfect ftate of vitrifition. cation than others, and are confequently lefs liable to the impreffions of time. I have oftell obferved on Mount Vefiuvius, when I have been clofe to a month from whence the lava was difgorging itfelf, that the quality of it varied greatly from time to time. I have feen it as thid and coherent as glafs when in fufion; and I bave feen it farinaceous, the particles feparating as they forced their way out, juft like meal coming from under the grindflone. 1 ftream of lava of this

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Lara. fort heing lefs compait, and containing more earthy particles, would certainly be mich fooner fit for vegetation than one compuled of the more pertect vitrificd matter." Mr Bergman, who has accurately analyzed fome Icelandic lams, informs ne, that one kind is very coast, heary, and lourd, full of bladders, almont black, intermixed with white grains reff oling quartz, which in tome places have a figure not very unlike a fquarc. This black matter is not attrafted by the magnet; but if a piece of it is held againit a compals, the necdle vitibly moves. When tried in the cruciule, it yields from ten to twelve pounds of iron in every hundred weight. It does not diffulve in the leaft sith fal fodue, and very diflicultly with boras, and farce at all with unimos falt. It fecins to contain a great deal of clay in its compotition, which may be extracted by all acid folvents. This laft he is likewife, from experiments, aftured is the cafe with the lava of Solfaterra in Italy.

The white lava, which pofferes more or lefs of thofe tranfpatent grams or rays with which lavas are generally chequcred, does not feem to be of the nature of quartz, as it camot be attacked by fal fodx; it is, bowever, foluole with fome difficulty by boras and fufible urinous falt, or microcofmic acid. 'Thefe effects are perfectly fimilar to thole produced apon the diamond, raby, fapphire, topaz, and hyacinth. The chryfolite, garret, tourmalin, and fchoerl, can neither be difiolved by lal fodx, though they are fomewhat attacked by it when reduced to a fine powder: and upon the two laft mentioned ones it produces a nlight effervefcence; on which account, fays Mr Bergman, it is voffible that the precious ftones found upon Mount Vefuvius, which are fold at Naples, are nearer related to the real precious flones than is generally imagined. He found no fuch grains in a finer kind of lava, quite porou's within, and entirely burnt out, and confiderably lighter than the former ones.

The Iceland agate is of a black or blackifh brown colour, a little tianfparent at the thin edges like glafs, and gives fire with fteel. It camot eafily be melted by itfelf; but becomes white, and hies in pieces. It can hardly be diffolved in the fire by fuible urinous falt; but it fucceeds a little better with borav, thouch with fome difficulty. With fal fode it diffolves very little, though in the firf moments fome ebullition is perceived, and the whole mafs is afterwards reduced to powder. Hence Mr Bergman concludes, that this agrate hath been prodaced by an excelfive fire out of the black lava formerly mentioned.

In the Iceland pumice-ftone, quartz and cryftals are often found, particularly in the black and reddifh brown kind. The fanes thro, n out of the volcano, whether gray, or burnt brown, feemed to confift of a hardened clay, mixed with a filiceous earth. They were fprinkled with rays and grains refembling quartz, and 'ome few Hakes of mica. 'They fufed with great dificulty in the fire; with fal fodz they thowed fome effersefcence at firf, but "hich cealed in a thort time. Whe parts refembling quartz produced no motion at all; from whence Mr Pergman concludes, that the black lava alrealy mentio:ed proceeds oriscipally from this mafs. Several other flones "hich wer font him from Iceland, Mr Bergman fuppofed to have no con-

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nexion with the eruptions, but to have been produced fome other way.

In Mr Ierber's travels through Italy, we are in- By air formed, that he has feen a feecies of lava io exactly re-forber. fembling blue iron llage, that it was not to be diflingnithed from them but with great difficulty. The fame author tells as likewile, that "the Vicentine and Veronefe lavas and volcanic athes contain enclufed fereral forts of fire tlriking and Hint lomoftoncs, of a red, black, white, grecn, and variegated colour, fuch as jafoers and agates ; that hyacinths, chryfotites, and pietre oblidiane, defcribed by Mr Arduini in his Giornais d'Itclia, are found at Leonedo; and that chalcedony or opa! pebbles, and noduli with enclofed water drops. (chalcedonii opali enhodri), are dug cut of the volcanic cineritivas hills near Vicenza.
M. Dulomieu conliders the chemical analytis of la Molova as but of little account. When labjected to the mieu's opit force of fire a fecond time, they are all of them redu- :ion. cible to the fame kind of glafs; from which it has been concloded, that all volcanic produces have been formed of the fame kind of materials, and that the fubterraneous fire has always acted on and rarioufly modified the farme kind of fone. But an analyfis by fire, he juftly obferves, is of all otbers the moll fallacious. The lubfances are all fufible, and we have no prope: methods of meafuring the intenfity of our fire; fo that the fane fubfance which to day may come out of our furnaces untouched, may to morrow be found completely altered, even though the fire employed fhould not appear to us to be any more violent than the former. Analyles by different mentrua have not been more fuccefsful. Mr Bergman has indeed analyzed Bergman's fome lavas with acids, and gives with aftonifing pre-analyfis of cifion the following refult, viz. that a hundred parts ${ }^{\text {dava. }}$ of lava contain forty-nine of filiceous earth, thirty-five of argillaceous earth, four of calcareous e:arth, and twelve of iron. Thefe cxperiments, howerer, our author obferves, give us no information with regard to lavas in general. They only thow the compolition of the particular fecimens that he tried; and even after the defcriptions that he has given, we are a good deal at a lofs to difcover the 「pecies of lava which he fubjected to analylis. "lt would be as ridiculous (iays M. Dolomieu) to apply this analy lis to every rolcanic product, as it would be to believe that the component parts of a fiffle rock were the fame with thole of every rock compofed of lamine or thin ilrata." Fur thefe reafons he is of opinion, that, in order to underlland the nature of lavas, we bou!d confider not only that of volcannes themfelves, but of the be?es on which they relt. Had this been dune, we would have found that the volcanic fircs generally exitt in beds of argiilaceous fchiftus and horn-1lone; frequently in a fuecies of porphyry, the gluten of which is intermediate betwixt of the feat anc is ind horn-flone and petrofilex; containing a large quantity of fchoerl, feldt-fpar, and greenilh quartz or chryfolite, in little rounded nodules. Thefe fubtances, he tells us, would have been found in thofe mountains which are called primitive, and in Itrata buried under beds of calcareous flonc; and, among other things, wou'd have convinced us, that the Huidity of lavas joes not make them lofe the diftimetive character of their bafes. In the mountains called Primitioe, tnule rocks which
are aifigned as the heres of the more common lavas are found intermixed with micaccous once, with gneifs, granite, Sic. and they generally reft on mafies of granite. Heace lavas mult contitt of all thele matters, and the fre mult act upon them all whenever it meets with them. Our author has conitantly obferved, that volcanoss fituated at the greateft difance from the centre of the chain or group of mountains on which they are ellablilhed, produce lavas of a more homogeneous compofition, and lefs varied, and which contain mol? iron and argillaceous earth. Thufe, on the contrary, placed nearcr the centre, are more diverfified in their products; containing fubftances of an infinite varicty of different kinds. The feat of the fire, howcrer, he ol-ferves, docs not long continue among the granites, the inllammation being either extinguilhed, or returning to the centre of the fchiftus rocks in its neighbourhood.

From this knowledge of the materials of which lavas are compofed, we acquire allo a confiderable knowledge of the matters that are found in greatelt quantity in the bowels of the earth. 'Ihe excavations made by mines, \&c. on the furface of the eath, are mere fcratches in comparifon of the depths of volcanic fires; and as he confiders the mourtains themfelves as the productions of thofe fires, it thence follows, that by attentively examinang the materials of which they are compofed, we may thence determine what hind of fubflances are moft common at thefe great depths in the earth.

Thus our author thinks it probable, that fchoerls and porphyries, though rare on the furface, are very common in the internal parts of the earth. As an inflatice of the truth of his obfervations, our author informs us, that he was convinced, from no other circumflance tut merely infpecting the lavas of Mount Fetna, that in fome farts of the illand of Sicily, there exilted granites, parphyries, with fchiftus and argillaceous horn-ftones. la this opinion he perfilted, notwithltanding the generally oppofite fentiments of the inhabitants themfelves. He fearched in vain three-fonrths of the illand; and at laft found that all the mountains, forming the point of Sicily called Pelorus, contain rocks of the kind above mentioned. He then faw that the bafe of thefe mountains was produced under Mount Etna on one fide, and under the Lipari illands on the other. "We mull, therefore, (ays he) believe, that thefe mountains have furnilhed the materials on which the volcanoes have, for thoufands of years, exerted their power."
S.y tiavelling among thofe clevations called the Nepitmian Mountaine, or Mons Pelo ur, he was enabled to difcover the reafon why the products of AEtna and the Lipari illands differ from one another. This, he fays, is the unequal dilribution of the granite and fehiftus rocks among them. The illands reft almoft immediately on the granite, or are feparated from it by a very thin fratum of argillaccous rock which contains porphyrv; but the Sicilian volcano is fituated on the prolongation of the fchiflus rock, which it muft pierce before it reaches the granite; and accordingly very little of its lava feems to have granite for its halis. If the fea: of the fire was llill more diftant from the centre of the mountains, their lavas would he more homogencous; bccaufe the fchit, which fiaceeds to the
horn-lione, is lefs varions, and hardly includes any bo. dies forcign to its own lubitance. 'Thus the lavas, in the extinguifhed volcanoes of the Val di Noto, which lie 5 leagues to the fouth-eaft of AEna, contain neither granite nor porphyry; but have for their bafes fimple rocks, with particies of chrytolite and fome fchoerls.

To the granites which extend to Metazzo, oppofite to Lipari, he afcribes the formation of pumice ; as they contain an immenfe quantity of fcaly and micaceous rocks, black and white, with foffil granites or gneifs, the bafis of which is a very fufible feldt-fpar; and thefe he fuppofes to be the proper materials of the pumice, having found pieces of them almoft untouched in pumice-ftones. There are beds of almolt pure feldt-fpar ; to the lemivitrification of which he afcribes an opaque enamel like lava mentioned in other parts of his works. Few porphyries, however, he acknowledges, are to be met with among the Neptunian mountains, though thele tones abound in the lavas of Atna. "They are not difant (fays he) from the granites; and thofc I have found have neither the hardnefs nor perfection of thofe pieces which I gathered in the gullies, and which had been apparently wafhed ont of the anterior parts of the mountain by water. But though the porphyries I faw here bear no proportion to thole in the products of Etna, I was fufficiently consinced of their exiftence, and their analogy with thofe of volcanoes, by difcovering that the centre of thefe mountains contains a great number of them. Porphyries, in general, are very rare on the furface of the earth. Nature generally conceals them from us by burying them under calcareous itrata, or by enclofing them in fchiftus racks with which they are almof al. ways mixed: but we are indebted to the labour of volcanoes for informing us that they are among the moft common fubftances in the bowels of the earth; and they are never fo much difguifed by the fubierranean fire as to be miftaken in the lavas of which they form the bafis."

For an account of volcanic productions, fee MrNeralogy Index.

The quantity of matter thrown out from vol- Vat qua canoes under the name of laza is prodigious. Af-iesofla ter the great eruption of 有tma in 1669, Borelli hrowne went from Pifa to Sicily to obierve the effects of it. The matter thrown out at that time amounted to $93,830,750$ cubical paces; fo that, had it been extcuded in length upon the furface of the earth, it would have reached more than four times round the whole earth. All this matter, however, was not lava, but confifted alfo of fand, ftone, gravel, \&c. The law he computed at $6,300,000$ paces, which formed a river, according to our author, fometimes two miles broad; but according to others it was fix or feven miles broad, and fometimes 20 or 30 yards in depth. Sir William Hamilton informs us, that the lavas of IEtna are very commonly 15 or 20 miles in length, fix or feven in breadth, and 50 feet deep. The moft confiderable is fcarce lefs than 30 miles long and 15 broad. The moft confiderable lavas of Vefuvius do not exceed feven miles in length. The fame author, however, tells us, that the lava which iffued from Vefuvius in 1767 , was fix miles long, two in breadth, and in moll places 60 or 70 feet deep. In one piace it had run along a hollow wa made by currents of rain not lefs tha: 200 feet deep and $1=0$ wide; and this vatt hollow it had in one place filled up. He fays, he could not have betieved that fo great a quantity of matter could beve been thrown out in fuch a thot time, if he lad not examined the whole courfe of it himfelf. Even this ģuantity, however, great as it is, appears very triting in comparifon of that thrown out in Icelend in the year 1783 , which covered a fpace of ground 90 miles ia length and 42 in lureadth, to the depth of more than 100 feet. Dr Van Troil, in his Le:ters on Iceland, tells us, that he and his companions travelled over a tract of lava upwards of 300 miles in length: and in 1728 , we are told that an eruption of lava took place, which continued for two years to run into a great lake, which it almolt filled up.

As the lavas are thrown out from the volcanoes in the bighelt degree of ignition, it may eafly be fuppofed that fuch vaft bodics will retain their heat for a long time. It would indeed be well worth obferving, what length of time is required to cool a lava perfectly; as from thence we might in fume meafure judge how far thofe philofophers are in the right, who argue concerning the length of time required to cool an ignited globe of the fize of our earth or larger. Sir William Hamilton tells us, that in the thonth of April 1773, he thruft ficks into fome of the crevices of the lava which had iffued from Vefurius in OCober 1767 , and they immediately took fire. On Mount Ætna, in 1769, he obferved the lava that had been difgorged three years before to fmoke in many parts. No particular obfervation, however, bath been made in what proportion the heat of lavas is gradually loft.

Sir William Hamilton informs us of a curious fact relating to a lava in the illand called Lacco. Here is a cavern thut $u p$ with a door; and this cavern is made ufe of to cool liquors and fruit, which it does in a fhort time as effectually as ice. Before the door was opened, he felt the cold on his legs very fenfibly ; but when it was opened, the cold rulthed out fo as to give him pain; and within the groto it was intolerable. He was not fenfible of wind attending this cold; though upon Mount Ætna and Vefuviuc, where there are caverns of this kind, the cold is evidently occafioned by a fubterraneous wind: the natives call fuch places ventaroli. From old lavas there alfo frequently happens an eruption of noxious vapours called mofetes. Thefe likewife break out from wells and fubterrancous places in the neighbourhood of a volcano before an cruption. Our author tells us, that the wapour affects the nollrils, throat, and fomach, juft as the fpirit of harithorn or any itrong volatile falt; and would foon prove fatal if you did not immediately withdraw from it. Thefe mofetes, he fays, are at all times to be met with under the ancient lavas of Vefusius, particularly the great eruption of 1631 .

Sir William Hamilton informs us, that the lavas of Ftna and Vefurius are much the fame, but thofe of AEma rather blacker and more porous than thofe of Vefuvius. Some kinds of lava take a fine polilh, and are frequen'ly manufactured into boxes, tables, \&c. In Naples, the inhabitants commonly make ufe of it for paving the fireete, a:d even the fubterrancous cities of Pompcii and Herculancum have been paved with
the fame fubitance. $\Lambda$ fine large cubic picce of lava $\mathrm{L}_{\text {mandur }}$, is preferved in the hail of the Britith Mefeum.

LAVANDULA, ,AMMDRR, a gents of plants, belonsing to the didynau:a clals, and is the hatural msthod ranking under the 4.1 order, l'erticillat.e. S:e Bota: y Ind...

Lavater, Jons Gacpard Christan, beh knosn by lis writings on phyinognomy, was bornat Zurich in Smizerland, in 1741. He was brought up a proteitant minitter, and entered into holy orders in $1 ; 61$. He was for fome time paftor of the or phans church in that city; but from the year 1,73 , he was deacon and paftor of St Peter's church is the fame place. The cloquence of his difcourfes in the pulpit procured for him an early reputation, as well as the ardent zeal and Chriltian benevolence with which he difcharged the cuties of his ortice. Though not much converfant with books, he had a very estenfive knowledge of human nature, and a mo!t acuit difcernment. His theological writings in profe ar:d werfe are little known, but his works on phyfognomy have extended his fame throughout every part of Europe. Wite are informed by himelf, that he felt an early propenfity to ftudy the human face, and frequently drew fuch features as made a peculiar impreffion upon his mind; but his choice of phyfiognomy was fixed by the faggeftion of Dr Zimmerman, "ho, having heard his remarlis on the fingular countenance of a fuldier whom they las paffing by as they food together at a window, Erged him to purfue and methodife his ideas. He foon acquired a full conriction of the reality of phyfiognomical fcience, and of his own dilcoveries in it. His firt volume on this fubject appeared at Leipzig in 1776 , and the 20 fections of which it was compofed he modeftly denominated fragments. With him it appeared to be an axiom, "that the powers and faculties of the mind have reprefentative figns in the folia parts of the countenaace." This notion he extended to all animated nature, firmly believing that internal qualities invariably denote themfelves by external marks or tokens.

Two more volumes foon appeared in fucceffion, containing a woinderful affemblage of curious obfervations, refined reafoning, delicate feeling, and philan:hropic fentiment, with a number of engravings highly finithed and fingularly expreflive. This work was well tranllated into the French and Englith languager, and was for fome time the avourite topic of literary difcuffion. So much was its author admired, that no forcigner of dillinction palled through Zurich without obtaining an interview with Lavater, and alling his opinion of lome character from a thade or miniature. His huge vo. lumes, howerer, are now feldom looked at except fur the fake of the plates, and his phyfingromical notions appear to be conligned to oblivion with other lciences of a chimerical nature. One of the beft known of his mifcellan ous publications is his $A_{i}$ horifms on Man, which contain originality both of fentiment and exprellion, with decp and philofophical views of human nature.

Lavater was zealuufly attached to the Chmifian revelation, and tranflated Bounct's Euquiry into the Eridences of Chrinianity, into the German language. This book he dedicated to the celebrated Jewifh "philofopher, Mofes Mendelfohn, with a cirallenge cither to refute it publicly, or profefa lis comvition of the tru:h

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Laratera, of its arguments. This challenge ine afterirards conLavatory. feffed to have been incom:derate, and that his zeal had
milled him. His popularity at Zurich was lo extremeiy great, that in his walks it was no uncommon thing to fee the people focking around him, and. kiling his hand in token of refpect. He had a moft exemplary moral claracter, and his zeal in doing good was fcarcely ever furpaffect. He was mild and moderate in converfation, a ${ }^{1}$ though naturally full of fre and fenfibility; lie was candid in his eflimate of fuch as differed from him in opinion; he always rofe early, and never took his break faft till he thought he had earned it. He was the determined cnemy of tyranny in every flape, being poffefled of the genuine Swifs zeal for liberty. He was therefore a friend to the French revolution at its commencement; but the rapine, plunder, and bloodthed which afterwards difgraced it, made him one of its bittereft anteconifts. On the day when the unfortunate city of Zurich was formed by Maflena in 1799, he received a wound in the brealt from a Swifs foldier in the frects, to whom he had formerly been a benefactor. He never wholly recovered from the effects of this wound; and he brought on a train of dangerous fymptoms by attending for more than an hour, in the open air, a man who was concemned to be thot as a ipy. The activity and vigour of his mind, however, continued till a thort time before his death, which took place on the 2d of January, 1801.
I.AVATERA, a genus of plants, belonging to the polyadelphia clafs, and in the natural method ranking under the $37^{\text {th }}$ order, Columniferce. See Botany Index.

LAVATOPY, or Lavadero, a name given to certain places in Chili and Peru, where gold is got out of earth by walling.
M. Frezier gives us the following defcription of the lavatories of Chili :-They dig deep into the earth, in fuch places as they have reafon to expect gold in; and, in order to facilitate this digging, turn a fream of water upon the fot, loofening the earth as much as poflible all the time, that the current may have the greater effect, and tear up the earth more ftrongly. When they are got to the earth they want, they turn off the flream, and dig dry.

The earth that they now get, is carried on mules, and dicharged into a bafon, made fomewhat in the manner of a fmith's bellows; into which a little rivulet of water runs with a great deal of rapidity, diffolving the parts of the earth, and carrying every thing away with it, excepting the particles of gold, which, by their great weight, precipitate to the bottom of the bafon, and mix with fine black fand, where they are almoft as much hidden as they were before in the earth.

Sometimes they find very confiderable pieces in lavatories, particularly pieces of twenty-four ounces each. There are Ceveral lavatories, where they find pepitas, or pieces of virgin goid, of a prodigious fize. Amung others, they tell of one that weighed 512 ounces, bought by the count de la Moncloa, viceroy of Peru.

Nine or ten leagues to the ealt of Coquimbo, are the lavatories of Andacoll, the gold whereof is 23 carats fine.-Their works hese always turn to great profit, excepting when the water fails them.-The
natives mantain that the earth is creative, that $i$, Laubac it produces gold, continually; becaufe, after having been wafhed 60 or 80 years, they find it imprey. nated afre!h, and draw almo!t as much out of it as at firt.

L AUBACH, a handfome and Rrong town of Germany, in the circle of Auftria, and in Carniola, with a bithop's fee, a calle, and very handfome koules. It is feated on a river of the fame name, wherein are the largelt crawfik in Europe. E. Long. 14.45. N. Lat. 46. 20.

LAUD, Wres.ran, archbifhop of Canter'vury in the $17^{\text {th }}$ century, was born at Reading in 1573 , and educated in St John's college, Oxford, of which he was afterwards a fellow and grammar reader. In 1610, he went into orders. In 1611, he was elected prefident of St John's college; but his election being difputed, it was confirmed by his majefly. Tbe lame year he was fworn the king's chaplain. In 1621 , he was nominated bithop of St David's. In 1628 , he was tranflated to the Eifhopric of London. In 1630 , he was elefted chancellor of the univerfity of Oxford. In 1633 , he attended the King into Scotland, and was frorn a privy coun?ellor for that kingdom. During his flay in Scotland, he formed the refolution of bringing that church to an exact conformity with the church of England. In the fame year, he fucceeded Archbithop Abbot in the fee of Canterbury; and foon after came out his majefty's declaration about lawful fports on Sundays, which the archbilhop was charged with having revived and enlarged, and that with the vexatious profecutions of fuch clergymen as refifed to read it in their churches. In $1634-5$, the archbithop was put into the great committee of trade and the king's revenue; on the 4 th of March follorving, he was appointed one of the commiffioners of the treafury; and on the 6th of March $1635 \cdot 6$, he received the faff of lord high treafurer of England. In order to prevent the printing and publifhing what he thought improper books, he procured a decree to be paffed in the far-chamber, on the 1 ith of July 1637 , whereby it was enjoined that the mafter printers fhould be reduced to a certain number, and that none of them fiould print any books till they were licenfed either by the archbilhop or the bithop of London, or fome of their chaplains, or by the chancellors or vice chancellors of the two univerfities. A new parliament being fummoned, met on the 13 th of April 1640 ; and the convocation the day following: but the commons launching out into complaints againf the archbifhop, and in fifting upon a redrefs of grievances before they granted any fupply, the parliament was diffolved on the 7 th of May. The convocation, however, continued fitting; and made 17 canons, which were fuppofed to be formed under the immediate direction of the archbifhop. In the begiming of the long parliament he was attacked on account of thole canons: and they being condemned by the houfe of commons on the 16 th of Decernber 1640 , " as containing many things contrary to the king's prerogative, to the fundamental laws and 爪atutes of this realm, to the rights of parliament, to the property and liberty of the fubject, and tending to fedition, and of dangerous confequence;" he was, on the 1 Sth of December, acculed by the commons of high treafon, and fent to the Tower.

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Lianum Being tried before the houfe of lords, for eadeavouring to fubvert the laws, and to overthrow the Proteftant religion, he was fount guilty, and beheaded on Towerhill on January roth following, in the 72 d year of his age. This learned pielate, notwithflanding his being charged with a defign to bring in Popery, wrote an Anfiver to Dr Fifher, which is elteemed one of the beft pieces that has been printed againf that religion. He was temperate in his diet, and regular in his private life: but his fondnefs for introducing new ceremonies, in which he thowed a hot and indifcreet zeal, his encouraging of fports on Sundays, his illega! and cruel fererity in the ftar-chamber and high commifion courts, and the fury with which he perfecuted the diffenters, and all who prefumed to contradia his fentiments, expofed him to popular hatred. Befides his Anfiver to Fither, he publithed feveral fermons, and other works.

LaUdanum. See Opium, Materia Medica Index.

LAUDATIO, in a legal fenfe, was anciently the teftimony delivered in court of the accufed perfon's good behaviour and integrity of life. It refembled the cuftom, which prcwails in our trials, of calling perfons to fpeak to the charater of the prifoncr. The lealt number of the landatores among the Romans was ten.

LAUDER, William, a native of Scotland, was educated at the uriverfity of Edinburgh, where he finithed his ftudies with great reputation, and acquired a confiderable knowledge of the Latin tongue. In May 22. 1734, he received a tellimonial from the heads of the univerfity, certifying that he was a fit perfon to teach humanity in any fchool or college whatever. In 1739 he publihhed at Edinburgh an edition of Johnfton's Pâalms. In 1742, he was recommended by Mr Patrick Cumming and Mr Colin Maclaurin, profeflors of church hillory and mathematics, to the materthip of the grammar fchool at Dandee, then vacant. Whether he fucceeded in his application or not, is uncertain: but a few years afterwards we find him in London, contriving to ruin the reputation of Milton; an attempt which ended in the defruction of his own. His reafon for the atack probably fprung from the virulence of a violent party-fpirit, which triamphed over every principle of honour and honelty. He began firlt to retail part of his delign in the Gentleman's Magazine, 5747 ; and finding that his forguries were not detecied, was eacouraged in 1751 to collect them, with additions, into a volume, entitled, "An Effay on Miton"s Ufe and 1mitation of the Moderns in his Paradife Lont," $8 v o$. The f.delity of lis quotations had been donbed by feveral people; and the falfeltool of them was foon after demonfrated hy Dr Druglas, in a pamphret, entitled, "Milton Vindicated from the Charge of Plagiarifm brought againft him by Lauder, and Louder himfel: ronvißted of feveral Forgeries and grols Irsustitions on the Public: In a Letier humbly addreffed to the Right Honourabie the Earl of Bath, 3751 ," Svo. The appearance of this Detetion overwhelmed Lauder with confufion. He fulscribed a confeftion, dictated by a learned friend, wherein le ingenuouly acknowledged his ofience, which he profeffed to have been occafioned by the injury he had received, from the difaprointment
of his expectations of profit from the publication of $L$ osticans Johnflon's Pfalms. This misfortune he afcribed to a couplet in Mr Pope's Dunciad, Book iv. vcr. 3. and from thence originated his rancour againी Milton. He afterwards imputed his conduct to other motives; abufed the few friends who continued to countenance him ; and, finding that his character was not to be retrieved, quitted the bingdon, and went to Barbadoes, where he fome time taught a fchool. His behaviour there was mean and defpicable; and he paffed the remainder of his life in univer\{al coatempt. "He died (fays Ms Nicholas) fome time about the year 1771, as my friend Mr Reed was informed by the gentlemann who read the funeral fervice over him."

LAUDIC ENI, among th the Romans, applauders, who for reward entered the rehearfal-rooms, attended the repetition of plays, and were in waiting when orations were pronounced, in order to raife or increafe the acclamation and applaufe.

LaUDOHN, Field Marhall.), a celebrated general in the Imperial fervice, born in 1756 , was a native of Livonia, and defcended from a Scottifh family. He made his firft campaigns under Marfhal Munich, in the war of 1738 , between the Ruffians and Turks; and was at the taking of Oczakow, Choczim, and Starrutzchane, where the Turks were entirely defeated. Frederick the Great refufed, in 1741, to take young Laudohn into his fervice, faying he did not like his countenance; though this monarch, who was confidered as the greatelt general of his age, afterwards faid, that he often admired the pofitions of other gencials, but that he had ever dreaded the battles of Laudohn. In 1756, when but juft entered into the fervice of the houfe of Auftria, with the rank of lieutenant-colonel, he made fuch a rapid progrefs, that within lefs than a year he was a general of artillery, and within three years conmander in chief of the whole army. He refcued Olmutz, when befieged by the Pruffians; beat the king himfelf at Frankfort on the Oder ; at Korndorf, took General Fouquet prifoner ; carried Glatz and Schweidnitz by affault ; and ilopped the progrefs of Frederick in a war which might have proved fatal to the haufe of Autria. In 1778, when elevated to the rank of marthal, at the head of 60,000 men, he hindered Henry, brother to the king of Pruffia, from joining his army to that of the king. At Dabicza, Novi, Grandifca, and Belgrade, in the late war between the emperor and the Turks, he had but to prefens himfelf before the Ilacc, and fay with Cafar, $V_{\text {crui, eridt, }}$ vici. Put at his head quarters in Moravia, he was feized with a fever, in confequence of an operation hic underwent for an obftruction in the urethra. His impatience under the medical applications, the impetuous ardour of his character, and the knowledgc, abore all. of his importance in the war, contributed to irritate bis mind, and promote the violence of the fever. He refilted the application of cataplafms, before and after the incifions were made, with a fatal obllinacy, whicil railed the inflammation to fuch a heigh:, that he expired under the acceflion of the fever on the 14 th of July 1790, in the 5 th year of his age.

LA UDS, Laudes, the fecond part of the ordinary office of the breviary, faid after matins; though, heretofore, it ended the office of the night.

The laudes confirt principally of pralmes, hymne,

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Ervertan \&c. whence they took their name, From laus, laudis, ॥ " paife."
don, is a pleatant and pretty large town of Sulfolk, on a branch of the river Bret, from whence it rifes gradivally to the top of a hill, where are its church, which is a very handfome Gothic ftructure, and in which are feveral ancient monuments; and a fpacicus marketplace, encompaffed with nime frects or divifions, in a very healthy free air. It had formerly a very confiderable trade in blue cloth; and had three guilds or companies, with each their hall. It has ftill a confiderable manufaciory of ferges, flalloons, fays, ftuffs, and fpinning fire yarn for London; and many hundred loads of wool are delivered every year from its wool-hall. It is governed by 6 capital burgeffes, who are for life, and choofe the inferior officers. The church, and its Iteeple, which is 137 feet high, are reckoned the fineft in the county. Its tenor bell, though not much more than a ton, has as deep a note as a bell of twice that weight. Here is a free fchool and a briderell, part of which is a workhoufe where the poor children, \&c. of the parifh are employed in fpinning hemp, flax, and yarn; befides which, here are other confiderable charities. The tenants of the manor and the other inhabitants were always esempted from ferving at any court held for its hamlet. The tenure of land called Borough Englifh exifts here.

Lavender. See Lavandulat, Botany, and Materia Medica Index.

LAVER, in fcripture hiflory, a facred utenfil placed in the court of the Jewifh tabernacle, confinting of a hafon, whence they drew water by cocks, for wahing the hands and feet of the officiating priefts, and allo the entrails and legs of the victims.

LAVERNA, in antiquity, the goddels of thieves and clueats among the Romans, who honoured her with public worlhip, becaufe fhe was fuppofed to favour thofe who wißned that their defigns might not be difcovered. Varro fays, that he had an altar near one of the gates of Rome; hence called porta lazernalis.

LAUGER1A, a genus of plants belonging to the pentandria clafs, and in the natural method ranking among thofe of which the order is doubtful. Sce Butany Index.

LAUGI'TER, an affection peculiar to mankind, occafioned by fomething that tickles the fancy.
in laughter, the eyebrov:s are raifed about the middle, and drawn down next the nofe; the eyes are almont thut ; the mouth opens and flows the teeth, the conners of the mouth being drawn back and railed lip; the checks feem puffed up, and almoft hide the eyes; the face is ufually red; the noftrils are open; and the cyes wet.

Authors attibute laughter to the fifth pair of nerves, which fending branches to the eye, ear, lips, tongue; palate, and mu.cles of the cluek, parts of the mouth, precordia, \&c. there hence arifes a fympathy, or confent, letween all thefe parts; fo that when one of them is acted upon, the others are proportionabiy affeeced. Hence a favoury thing feel, or tmett, affects the giands, and parts of the mouth; a thing feen, or hearl, that is thameful, afiects the cheeks with bluthes; on the contrary, if it pleafe and tickle the faney, it ?ffeeds the tracoidia, and mufckes of the mouth atid face,
with laughter ; if it caule fadnefs and melancholv, it I Iugats likewife aflects the precordia, and demonfrates itfelf by caufing the glands of the cyes to emit tears. Dr Willis accounts for the pleafure of kiffing from the fame caufe; the branches of this fifth pair being fpread to the lips, the præco:dia, and the genital parts; whence arifes a fympathy between thofe parts.

The affection of the mind by which laughter is pro. duced is feeningly fo very different from the other palfions with which we are endowed, that it hath engaged the attention of very eminent perfons to find it out.-I. Ariflotle, in the fifth chapter of his Poeties, obferres of comedy, that "it imitates thofe vices or meanneffe only which partake of the ridiculous:-now the ridiculous (fays he) confifts of fome fault or tur. pitude not attended with great pain, and not deftructive." 2. "The paflion of laughter (fays Mr Hobbes) is nothing elfe but fudden glory arifing from fome fudden conception of fome eminency in ourfelvea, by comparifon with the infirmity of others, or with our own formerly. For men (continues he) laugh at the follies of themfelwes paft, when they come fuddenly to remembrance, except when we bring with them any fudden dihonour." 3. Akenfide, in the third book of his excellent poem, treats of ridicule at confiderable length. He gives a detail of ridiculous characters; ignorant pretenders to learning, boaftful foldiers, and lying travellers, hypocritical churchmen, conceited politicians, old women that talk of their charms and virtue, ragged philofophers who rail at riches, virtuefi intent upon trilles, fomantic lovers, wits wantonly fatisical, fops that out of vanity appear to be difeafed and profligate, daftards who are athamed or afraid without reafon, and fools who are ignorant of what they ought to know. Having finifhed the detail of characters, he makes fome general remarks on the caufe of ridicule; and explains himfelf more fully in a profe definition illuftrated by examples. The definition, or rather defcription, is in thefe words:
"That which makes objects ridiculous, is fome ground of admiration or efteem connefted with other more general circumftances comparatively worthlefs or deformed : or it is fome circumftance of turpitude or deformity connceted with what is in general excellent or beautiful; the inconfiftent properties exilting either in the objects themfelves, or in the apprehenfion of the perfon to whom they relate; belonging always to the fame order or clafs of being; implying fentiment and defign, and exciting no acute or vehement commotion of the heart." 4. Hutchefon has given another account of the ludicrous quality, and feems to think that it is the contralt or eppofition of dignity and meamnefs which occafions laughter.

All thefe opinions are refuted by Dr Beattie in his Elfay on Laughter and Ludicrous Compofition, where he has treated the fubjest in a matterly manner. "To provoke laughter (fays he), is not efiential either to wit or humour. For though that unexpected difcovery of refemblance between ideas fuppofed diffimilar, which is called seri-and that comic exhibition of fingular characters, fentiments, and imagery which is denominated 1.unour,-do frequently a aife laughter, they do not raife it always. Addifon's poem to Sir Godfrey Finellor, in which the Britith kings are likened to heathen gods, is exquifitely witty, and yet not laughable. Pope's

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augher. Ellay on Man abounds in: ferious wit; and examples of fericus humour are not uncommon in Fielding's Hiftory of Parfon Adanse, and in Addifon's' account of Sir Roger de Corerley. Wit, when the fubject is grave, and the allulions fublime, raifes admiration inllead of laughter: and if the comic fingularities of a good man appear in circumflances of real diftrefs, the inntation of thefe fingulanties in the epic or dramatic comedy will form a fpecies of humour, which, if it thould force a fmile, will draw forth a tear at the fame time. An inquiry, therefore, into the dillinguifhing characters of wit and humour bas no necellary connection with the prefent fubject.
"Some authors have treated of ridicule, without marking the ditinction between ridiculous and ludicrous ideas. But I prefume the natural order of proceeding in this inquiry, is to begin with afcertaining the nature of what is purely ludicrous. Things ludicrous and things ridiculous have this in common, that both excite laughter; but the former excite pure laughter, the latter excite laughter mixed with difapprobation and contempt. My defign is to analyze and explain that quality in things or ideas, which makes them provake pure laughter, and entitles them to the name of ludicrous or laughaúle.
"When certain objects, qualities, or ideas, occur to our fenfes, memory, or imagination, we fmile or laugh at them, and expent that other men thould do the fame. To fmile on certain occafions is not lefs natural, than to weep at the fight of diltrefs or cry out when se feel pain.
"There are different kinds of laughter. As a boy, palfing by night through a churchyard, fings or whilles in order to conceal his fear even from himfelf; fo there are men, who, by forcing a fmile, endearour fometimes to hide from others, and from themfelves too perhaps, their malevolence or envy. Such laughter is unnatural. The found of it offends the ear ; the features diftorted by it feem horrible to the eye. A mixture of hypocrify, malice, and cruel joy, thus difplaved on the countenance, is one of the molt hateful fighis in nature, and transforms the "human face divine" into the vifage of a fiend. Similar to this is the fmile of a wicked perfon pleafing himfelf with the hope of accomplithing his evil purpofes. Milton gives a ftriking picture of it in that well known paffage:

He ceas'd; for both feem'd highly pleas'd; and Death
Grimn'd horrible a ghaftly fmile, to hear
His famine thould be fill'd, and blent his maw
Deftin'd to that good hour.-
Bat enough of this. Loughter that makes a man a fiend or a monfter, I have no inclinaion to analyze. My inguisies are confined to that Species of laughter which is at once natural and innocent.
"Of this there are two forts. The laughter occafioned by tickling or gladne ${ }^{\prime}$ s is different from that which arifes on reading the Tale of a Tub. The former may be called animal laughter: the latter (if it were lawful to adopt a new word which has become very common of late) I fhould term fentimental. Smiles admit of fimilar divifions. Not to mention the fcornful, the envious, the malevolent fmile, 1 would only remark, that of the imocont and agrecable fmile there are two forts. The one proceeds from the rifible emo-
tion, and has a tendency to break ott into laingiter. Latehter. The other is the effect of good humour, complacency, and tender aftection. "This lat! fort of liuile renders : countenance amiable is the higlo tit degree. Homer alcribes it to Venus in an epithet (e:nopessichs), whicis Dryden and Pope, after Waller, improperly tranlate laugher-lowing; an idea that accords better with the character of a romp or hoyden, than with the foddefs of love and beauty.
" Animal laughter adinits of various degrees; from the gentle impulfe excited in a child by moderate joy, to that terrifying and even mortal convalfion which has been known to accompany a change of fortune. This paffion may, as well as joy and forrow, be communicated by fympathy; and I know not whether the entertainment we receive from the playful tricks of kittens and other young animals may not in pait be refolved into fomething like a fellow-feeling of their viracity.-Animal and lentimental laughter are frequently blended; but it is eafy to ditinguilh them. The former is often excelfive ; the latter never, unlefs heightened by the other. The latter is always pleafing, both in itielf and in its caufe; the formor may be painful in bath. But their principal difference is this: -The one always proceeds from a fentiment or emo. tion excited in the mind, in confequence of certain ideas or objects being prefented to $i$, of which emotion we may be confcious even when we fupprefs laughter;the other arifes not from any fentiment or perception of ludicrous ideas, but from fome bodily feeling, or fud. den impulfe on what is called the animal jpirits, proceeding, or feeming to proceed, from the operation of caufes purely material. The prefent inquiry regards that fpecies that is here difinguilhed by the name of fonimental laughter.
"The pleating emotion, arifing from the view of ludicrous ideas, is known to every one by experience; but, being a fimple feeling, admits not of definition. It is to be diltinguithed from the laughter that generally attends it, as forrow is to be diltinguithed from tears; for it is often felt in a high degree by thofe who are remarkable for gravity of countenance. Switi feldon laughed, nowithitanding his uacommon talents in wit and humour, and the extraordina:y delight he feems to have had in furveying the ridiculous fide of things. Why this agreeable emotion thould be accompanied with laughter as its outward fign, or forrow exprefs itfelf by tears, or fear by trembling or palenefe, I cannot ultimately explain, otherwife than by faying, that fuch is the appointment of the Author of na-ture.-All I mean by this inquiry is, to determine, "What is peculiar to thofe things which produce laughter,-or rather, which raife in the mind that pleafing fentiment or emotion whereof laughter is the external fign.
" Philofophers have differed in their opinions concerning this matter. In Arilkotle's definition quoted above, it is clear that he means to characterize, not laughable qualities in general (as fome have thought), but the objects of comic ridicule only; and in this view the definition is jult, however it may have been overlooked or defpifed by comic writers. Crimes and misfortunes are often, in modern plays, and were fometimes in the ancient, held un as objects of public merriment; but if poets had that reverence

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Laughte:. for nature which they ought to have, they wou!d :ot thock the common ferfe of mankind by fo abfurd a repreentation. The definition from iritecte does not, however, fuit the general nature of ludicrous ideas; for it will appear by and by, that men lugh at that in which there is ncither failt nor turpitude of aņ hind.

- 'ithe theory of Mr Hobbes rould hardly have deferved notice, if Addifon had not fpoken of it with approbation in the $47^{\text {th }}$ paper of the Spectator. He ju:tly obierves, after quoting the words of Mr Hobbes formerly inentioned, that "according to this account, when rice hear a man laugh exceflively, inftead of faying that he is zery neerry, we ought to tell him that he is very proud." It is flrange, that the elegant author hoould be aware of this confequence, and yet admit the theory: for fo goot a judge of human nature could not be ignorant, that laughter is not confidered as a fign of pride; perfons of fingular gravity being often fufpected of that vice, but great laughers feldons or never. When we fee a man attentive to the inmocent humours of a merry company, and yet maintain a fixed folemnity of countenance, is it natural for us to think that he is the humblett, and the only humble perton in the circle?
" Another writer in the Speqtator, $\mathrm{N}^{0}$ 249. remarks, in confirmation of this theory, that the vainef pat of mankind are mofl addicted to the paffion of laughter. Nus, how can this be, if the prouteft part of mankind are allo moft addicted to it, unlefs we fuppofe vanity and pride to be the fame thing? But they certainly are diferent pafions. 'The proud man defpifes other men, and derives his chief pleafure from the conternplation of his own importance : the vain man ftands in need of the applaufe of others, and cannot be happy without it. Pride is apt to be referved and fullen; vanity is often affable, and officioufly obliging. The proud man is fo confident of his merit, and thinks it fo obvious to all the world, that he will fcarcely give limfelf the trouble to inform you of it: the vain man, to raife your admiration, fcruples not to tell you, wot only the whole truth, but ever a great deal more. In the fame perfon thefe two paffions may, no doubt, be anited; but fone men are tco prond to be vain, and fome vain men are too confcious of their own weaknefs to be proud. Be all this, however, as it will, we have not a, yet made any difcovery of the caufe of laughter : in regard to which, I apprehend, that the vain are not more intemperate than other people ; and I am fure that the proud are much lefs fo.
"Hurchefon's account of the origin of laughter is equally unfatisfactory. Granting what he fays to be true, I would oblerve, in the firft place, what the ingenious author feems to have been aware of, that there may be a misture of meannefs and dionity where there is nothing ludicrous. A city, confidered as a collection of low and lofty houfes, is no laughable object. Nor was that perfon either ludicrous or ridiculous, whom Pope fo juftly characterifes,
"The greatcit, wifeft, meanelt of mankind."
-Prat, fecondly, cafes might be mentioned, of laugh ter arifing from a group of ideas or objects, wherein these is no difcermible oppofition of meannels or
diguity. We are told of the dagger of Hudibras, Laugh that
" It could fcrane irenchers, or chip bread,
"'Toall cheefe or bacon, thourgh it were
"'To and a moule trap, 'twon'd not care ;
" 'T'wou'd mahe clean thoes, or in the earch
"Sei leeks and chions, ared to fortl.."
The humour of the paliage cannot arife from the meanm nefs of thefe offices compared with the dignity of the dagger, nor from any oppoition of meannefs and dignity in the offices themfelves, they being all equally mean ; and muft therefore be owing to fome peculisrity in the Cefcription. We laugh, when a droll mimics the folermity of a grave perfon; here dignity and meannefs are indeed united: but we laugh allo (though not fo heartily perhaps) when he mimics the peculiarities of a fellow as infignificant as himfelf, and difplays no oppofition of dignity and meannefs. The levities of Sancho Pança oppofed to the folemnity of his maller, and compared with his own flhemes of preferment, form an entertaining consrait : but fome of the vagaries of that renowned fquire are truly laughable, even when his preferment and his matter are out of the queltion. Men laugh at puns; the wifeft and wittieft of our fpecics have laughed at them : Qusen Elizabeth, Cicero, and Shakefpeare, laughed at them; clowns and childien laugh at them ; and moft men, at one time or other, are inclined to do the fame: but in this fort of low wit, is it an oppoticion of meannefs and dignity that entertains us? Is it not rather a mixture of famenefs and diverfity,-famenefs in the found, and diverfity in the fignification?

6. In the characters mentioned by Akenfide, the author does not diffinguith between what is laughable and what is conternpible; fo that we have no reafon to think, that he meant to fpecify the qualities peculiar to thofe things which provoke pure laughter; and whatever account we may make of his definition, which to thofe who acquiefe in the foregoing realonings may perhaps appear not quite fatisfactory, there is in the poem a paflage that deferves particular notice, as it feems to contain a more exact account of the ludicrous quality than is to be found in any of the theories above mentioned. This palfage we fhall foon have occalion to quote."

Ous author now goes on to lay down his own theory concerning the origin of laughter, which he fuppofes to arife from the view of things incongruous united in the fame affemblage. "However imperfen (fays he) the above-mentioned theories may appear, there is none of them deftituie of merit ; and indeed the molt fanciful philofopher feldom frames a theory without co:fulting nature in fome of her more obvious appearances. Laushter very frequently arifes from the view of dignity and meannefs united in the fame object; fometimes, no duubt, from the appearance of affumed inferiority, as well as of finall faults and unimportant turpitudes; and fometimes, perhaps, though rarely, from that fort of pride which is defcribed in the paffage already quoted from Hobbes.
"All thefe accounts agree in this, that the caule of laughres is fomething compounded; or formething that difpofes the mind to form a comparion, by patling from

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Lhher. from one object or idea to another. That this is in fact the cafe, cannot be proved $i$ prori; but this holds in all the examples hitherto given, and will be found to hold in all that are given hereafter. May it not then be laid down as a principle, That laughter arifes from the vietr of two or more objects or ideas difpoling the mind to form a comparifon? Aecording to the theory of Hobbes, this comparifon would be between the ludicrous object and ourfelves; according to thofe writers who mifapply Ariltotle's definition, it would feem to be formed between the ludicrous object and things or perfons in general ; and if we incline to Hutchefon's theory, which is the belt of the three, we thall think that there is a comparifon of the parts of the ludicrous object, frift with one another, and fecondly with ideas or things extraneous.
"Further : every appearance that is made up of parts, or that leads the mind of the beholder to form a comparifon, is not ludicrous. The body of a man or woman, of a horfe, a fifh, or a bird, is not ludicrous, though it confifts of many parts; and it may be compared to many other things without raifing laughter; but the picture defcribed in the beginning of the epiftle to the Pifoes, with a man's head, a horfe's neck, feathers of different birds, limbs of different beafts, and the tail of a filh, would have been thought ludicrous 1800 years ago, if we believe Horace, and in certain circumftances would no doubt be fo at this day. It would feem then, that 'the parts of a laughable affemblage mult be in fome degree unfuitable and heterogeneous.'
" Moreover : any one of the parts of the Horatian monfler, a human head, a horfe's neck, the tail of a filh, or the plumage of a fowl, is not ludicrous in itfelf; nor would thofe feveral pieces be ludicrous, if attended to in fucceffion, without any view to their union. For to fee them difpofed on the different Arelves of a mufeum, or even on the fame Thelf, nobody would laugh, except, perhaps, the thought of uniting them were to occur to his fancy, or the paflage of Horace to his memory. It feems to follow, that "the incongruous parts of a laughable idea or object mult either be combined fo as to form an affemblage, or mult be fuppoled to be fo combined."
"May we not then conclude, "that laughter arifes from the view of two or more inconfiltent, unfuitable, or incongruวus parts or circumftances, confidered as united in one complex object or affemblage, or as acquiring a fort of mutual relation from the peculiar manner in which the mind takes notice of them ?" The lines from Akenfide formerly referred to, feem to point at the fame doctrine :

Where-e'er the pow'r of ridicule difplays
Her quaint-ey'd vifage, fome incongruous form,
Some flubborn diffonance of things combin'd,
Strikes on the quick obferver.
And to the fame purpofe, the learned and ingenious Dr Gerard, in his Eflay on Tahe: 'The fenfe of ridicule is gratified by an inconfiftence and diffonance of circumftances in the fame object, or in objects nearly relared in the main; or by a fimilitude or a relation unexpected between things on the whole oppofite and unlike.?
"And tharefore, intead of faying, with Hutchefon, Voz. XI. Part II.
that the caufe or object of laughter is an 'oppolition Lataghter. of dignity and meannefs;' I would fay, in more general terms, that it is 'an oppofition of fuitablenefs or unfuitablenefs, or of relation and the want of relation, united, or fuppofed to be united, in the fame affemblage.' 'Thus the offices afcribed to the dagger of Hudibras feem quite heterogencous; but we difcover a bond of connexion among them, when we are told that the fame weapon could occafionally perform them all. Thus, even in that mimicry which difplays no oppofition of dignity and meannefs, we perccive the actions of one man joined to the features and body of another; that is, a misture of unfuitablenefs, or want of relation, arifing from the difference of perfons, with congruity and fimilitude, arifing from the famenefs of the actions. And here let it be obferved in general, that the greater number of incongruities that are blended in the fanie affemblage, the more ludicrous it will probably be. If, aś in Butler's refemblance of the morning to a boiled lobiter, there is a misture of dignity and meannefs, as well as of likenefs and diffimilitude, the effect of the contraft will be more powerful, than if only one of thefe oppofitions had occurred in the ludicrous idea. The fublimity of Don Quixote's mind, contralted and connected with his miferable equipage, forms a very comical exhibition ; but when all this is fill further connected and contralled with Sancho Pança, the ridicule is heightencd exceedingly. Had the knight of the lions been better mounted and accoutred, he would not have made us fmile fo often; becaule, the hero's mind and circumitances being more adequately matched, the whole group would have united fewer inconfiftencies, and reconciled fewer incongruities. Butler has combined a ftill greater variety of uncouth and jarring circumftances in Ralpho and Hudibras: but the picture, though more elaborate, is lefs natural. Yet this argues no defect of judgement. His defign was, to make his hero not only ludicrous, but contemotible; and therefore he jumbles together, in his equipage and perfon, a number of mean and difgufting qualities, pedantry, igno. rance, naftinefs, and extreme deformity. But the knight of La Mancha, though a ludicrous, was never intended for a contemptible, perfonage. He often moves our pity, he never forfeits our efteem; and his adventures and fentiments are generally interefting; which could not have been the cafe if his fory had not been natural, and himfelf been endowed with great as well as good qualities. To have given him fuch a flape, and fuch weapons, arguments, boots, and breeches, as Butler has beftowed on his champion, would have deftroyed that folemnity which is fo friking a feature in Don Quixote: and Hudibras, with the manners and perfon of the Spanith hcro, would not have been that paltry figure which the Engliih poet meant to hold up to the laughter and contempt of his countrymen. Sir Launcelot Greaves is of Don Quinote's kindred, but a different character. Smollett's defign was not to expofe him to ridicule, but rather to recommend him to our pity and admiration. He has therefore given: him youth, frength, and beauts, as well as courage and dignity of mind; has mounted him on a generous fleed, and arrayed him in an cl egant fuit of armour. Yet, that the hifory might have a comic air, he has been careful to contralt and connect Sir

Launcc!.:
L...wherer Launcelot with a fquire and other affociates of very II dilininilar tempers and circumflances.
Launcritu:- :What has beeil faid of the caule of laughter does not amount to an exnet defcription, far lefs to a logical definition: there being innumerable combinations of conguity and inconfiftency, of relation and contraricty, of likenefs and difimilitude, which are not ludicrous at all. If wo could afcertain the peculiarities of thefe, we fhould be able to characterife with more accuracy the general nature of ludicrous combination. Eut before we proceed to this, it would be proper to evince, that of the prefent theory thus much at leall is true, that though every incongruous combination is not ludicreas, every ludicrous combination is incongruous.
"It is only by a detail of fass or examples that any tlicory of this fort can be either eflablimed or overthrown. By fuch a detail, the forcgoing theories liave been, or may be, fhown to be ill founded, or not fufficiently comprehenfive. A fingle inftance of a laughable ubject, which neither unites, nor is fuppofed to unite, incongrous ideas, would likewile fhow the infufficiency of the prefent; nor will I undertake to prove (for indeed I cannot), that no fuch inftance can be given. A complete enumeration of ludicrous objects it would be in vain to attempt: and therefore we can never hope to afcertain, beyond the polfibility of doubt, that common quality which belongs to all ludicrous ideas that are, or have been, or may be, imagined. All that can be done in a cafe of this kind is to prove by a variety of examples, that the theory now propofed is more comprehenfive, and better founded, than any of the foregoing." "This our author afterwards fhows at full length; but as the variety of examples adduced by him would take up too much room to be inferted here, and as every reader muft be capable of adducing numberlefs intances of ludicrous cafes to himfelf, we thall content ourfelves with the above expianation of the different theories of laughter, referring thofe who defire further fatisfaction to the treatife already quoted.

LAVINGTON EAst, a town of Wilts, four miles fouth of the Devizes, and 89 miles from London. It is called in our hiftorics Stepult Lavington: but now Cheaping or Market Lavington on account of its markets, which are on Monday and Wednefday, the laft a. gieat corn market. It is fuppofed to have been a market town above 200 years. Here is a charity fchool for 36 children, who have books given them, and the girils are taught to knit and few.
LAVINIUNI, in Ancient Geography, a town of Latium, fix miles to the eaff of L.aurentum, according to an ancient map; fo named from Laviniza, confort of IEneas, and daughter of King Latinus, and built by the Trojans. The firt town of Roman original in Latium, and the feat of the Dii Penates, (Livy): fituated near the river Numicus, or Numicius; between which and the Tiber Æ.neas landed, according to Virgil. Hollenius fuppofes the town to have flood on an eminence, now called it Monte de Levano:

## Launce. See Lance.

LAUNCESTON, a town of Cornwall in England, feeted on the river Tamar, $21+$ miles from London. It is alfo called Dunlizivid, from its fituatien on a doun. King Henry III. made it a free horuugh. It was connpofed before of two other bo.
roughs, viz. Dunhivid and Newport. It has been the place for choofing knights of the thire ever fince the reign of King Edward I. and the alfizes town eves fince Richard II. till by a late act of parliament the lord chancellor or lord kecper was empowered to name any other place in the county for it ; fince which the fummer affizes have been held at Bodinin. It was incorpurated by Queen Mary in 1555 . It is governed by a mayor, recorder, and eight a!dermen, has a free fchool which was founded by Queen Elizabeth, and is a populous trading iown. In the 3 2d of Henry V1II. an act was made for the repair of this and other decayed Comifh boroughs; and it endowed this town with the privileges of a fanctuary, though it does not appear to have ufed them. It had a monaitery and a nuble caftle, which, becaufe of its itrength, was called cafle terrible, and was given by King Richard I. to his brother, afterwards King John. Here are two charity fchools for 48 children of both fesces, where the girls are taught to knit, few, and make bonelace, and are allowed what they can earn. Leland fays it was walled in his time, and one mile in compafs. I hee lower part of its ancient cafte is ufed for the gaol.
I. AUNCH, in the fea language, fignifies to put out: as, Launch the fhip, that is, Put her out of dock: launch aft, or forvard, fpeaking of things that are flowed in the hold, is Put them more forward; lounch loo! is a term ufed when a yard is hoitted high enough, and fignifies hoiff no more. See allo Laven.
L. ÂUNDER, in Mineralogy, a name given in Devonfhire, and other places, to a long and lhallow trough, which receives the powdered ore after it comes out of the box or coffer, which is a fort of mortar, in which it is powdered with iron peftles. The powdered ore, which is wafhed into the launder by the water from the coffer, is always fineft neareft the grate, and coarfer all the way down.

LAVOISIER, Antoine Laurent, a celebrated chemical philofopher, was born at Paris on the 26 th of Auguft 1743. His father being a man of opu. lent circumftances, fpared no coft on the education of his fon, who foon gave a decided preference to the phyfical fciences. An extraordinary premium having been offered by the French government in the year $: 764$, for the beft and moit economical method of lighting the ffreets of an extenfive city, our author, although at that time only 21 years of age, gained the gold medal; and his excellent memoir was publithed by the academy, of which he became a member on the $13^{\text {th }}$ of May 1768 . His attention was alternately occupied with the pretended converfion of water into earth, the analyfis of the gypfum found in the vicinity of Paris, the congelation of water, the phenomena of thunder, and the aurora borealis.

By undertaking journeys with Guettard into every province of France, he was enabled to procure an immenfe variety of materials for a defcription of the mineralogical kingdom, ferving as the foundation of a great work on the revolutions of the globe, two admirable thetches of which are to be feen in the memoirs of the French academy for 1772 and 1787 . His whole time and fortune were dedicated to the cultiva. tion of the fciences, nor did he feem more attached to one than to another, till an interefting event decided his choice in favour of cliemiltry. The difcovery of gafes

## L A V [ 579 ] I A V

Loifier. gafes was juf made known to the leamed world, by Black, Prieftley, Scheele, Cavendilh, and Macbride, which appeared like a new creation.

About the year 1770, Lavoifier was fo fruck with the grandeur and importance of the difcovery, that he turned all his attention to this fountain of truths, perceiving the powerfud influence which this now fcience would have over every phyfical refearch. He was infpired with the true fpirit of inducive philofophy, and all his experiments had a direct reference to general views. He pubiithed his chemical opufcules in the year 1774, containing a hiftory of whatever had been done before refpecting the gales, and concluding with his own grand and interelting experiments. He demonllrated that metals, in calcination, derive their increafed weight from the abforption of air, of which be afterwards proved that nitrous acid is compofed. His chemical ingenuity was now fo well known, that 'lurgot employed him in 1776 to infpect the manufacture of gunpowder, which he made to carry 120 toifes inftead of 90. In the year 1778 he difcovered that all acids contain the refpirable portion of the atmofphere as a confituent principle, and to this he gave the name of oxygen. This was the firil grand ftep towards the new chemiflry, which was fully completed by his confirming the difcovery of the compofition of sater, afcertained in 1783.

His Elements of Chemiftry were publifhed in 1789 , which is a beautiful model of fcientific compofition, elegant, clear, and logical. His celebrated fyitem was almolt univerfally adopted in a very few years, fo full was the conviction it carried along with it to every candid, reflecting mind. The layt of Lavoilier's philoloplical works was on the perfpiration of animals, firft read to the academy on the $4^{\text {th }}$ of May 179t. By a number of the nicell experiments, he found that a man in one day perfpires 45 ounces; that he confumes 33 cunces of vital air, or oxygen; that 8 cubic feet of carbonic acid gas are difcharged from his lungs; that the weight of water difcharged from the lungs is 23 ounces, compofed of ! 3 of hydrogen and 20 of oxygen, which interefting difcoveriss he directed to the improvement of medicine.

There are no fewer than 40 memoirs of Lavoifier in the volumes of the Academy of Sciences from 1772 to 1793, full of the grand phenomena of the fcience; fuch as the analyfis of atmolpherical air, the formation of elaftic Aluids, the properties of the matter of heat, the compofition of acids, the decompofition of water, \&ic. \&c. To the fciences, arts, and manufactures, he sendered the moft effential fervices, both in a public and prisate capacity. After Buffon and Tillet, he was ireafurer to the academy, into the accounts of which he introduced both economy and order. He was confulted by the national convention as to the moft eligible means of improving the manufacture of affignats, and of augmenting the difficulties of forging them. He turned bis attention alfo to political economy, and between $177^{8}$ and 1785 , he allowed 240 arpents in the Vendomois to experimental agriculture, and increaf. ed the ordinary produce by one-half. In 1791, the conflituent affembly invited him to draw up a plan for rendering more fimple the collection of the taxes, which produced an excellent report, printed under the title of Territorial Riches of France.

While the horrors of Robefpierec's ufurpation con-
timued, he ufed to obferse to Lalande that he forefaw Jawnifier he would be deprived of all his property, but that he was extremely willing to work for his fubbithence; and it is fuppofed that he meant to purfue the profellion of apothecary, as moft congenial to his Itudies. But the unrelenting tyrant had already fixed his doom. He fuffercd on the fcaffold with $2 S$ farmers-general on the 8th of Mfay 1794, for no other crime but becaufe he was opulent. A paper was prefent to the tribunal, drawn up by Citizen Hallé, containing a defcription of the works, and a recapitulation of the metits, of Lavoifier, fufficient to make an imprefion on the moft obdurate heart; but it was not even read by thele men, who were the blind, ftupid, and ferocious inftraments of cruelty and death.

A man fo rare and fo extraordinary ourght to have enjoyed the refpect of the moll ignorant, and even the moft wicked. To produce the contrary, it was necef. fary that power frould fall into the laands of a tyrant who refpected none, and whofe blind and fanguinary ambition facrificed every thing to the defire of pleafing the people.

Lavoifier was tall, and poffeffed a countenance full of benignity, through which his genins fone confpicuous. As to his character, it was mild, humane, fociable, obliging; and he difcovered an incredible degree of activity. He had great influence on account of his credit, fortune, reputation, and his office in the treafury; but all the ufe he made of it was to do good: yet this did not prevent jealoufy on the part of others. In 1771 he married Marie-Anna-Pierette Paulze, the daughter of a farmer-general, whofe excellent accomplifhments formed the delight of his life, who affiled him in his labours, and even drew the figures for his lait work. She had the misfortune to behold her father, hubland, and intimate friends, affaffinated in one day: The was herfelf imprifoned, and even menaced with a fimilar fate; but the unthaten fortitude of he: mind made her rife fuperior to the horrors of her condition. We learn that ftee has fince given her hand to the celebrated Count Rumford.

LAURA, in church hiftory, a name given to a collection of little cells at forme diftance from each other, in which the hermits in ancient times lived together in a wildernefs.

Thefe hermits did not live in community, but each monk provided for himfelf in his ditinat cell. The moit celebrated lauras mentioned in ecclefaitical hiflory were in Paleftine: as the laura of St Euthymus, at four or five leagues diltance from Jerufalem; the laura of St Saba, near the brook Cedron; the laura of the Towers, near the river Jordan, \&c.

Poft LAUREATE, an officer of the houfcho'd of the kings of Britain, whofe bufinefs confifts only in compofing an ode annually on his majefty's birth day, and on the new year; fometimes alfo, though rarely, on occafion of any remarkable victory.-Of the firt inftitution of poets laureat, Mr Wharton has given the following account in his bifory of Engl: $h$ poetry. "Great confufion has entered into this fubjea, on account of the degrees in grammar, which included rhetoric and verfification, anciently taken in our univerfities, particularly at Osford: on which occafion, a wreath of laurel was prefented to the new graduatc, who was afterwards u!ually ftyled Poeta Laurcatus.

Thefe

Lutestr. Thefe foholafic laureations, howerar, feem to have given rike to the appellation in queltion. I will give fome inflances at O.ford, rehich at the fame time will csplain the nature of the ftudies for which our academical philologits raceived their rovards. About the year 1470 , one John Watfon, a ftudent in grammar, obtained a concellion to be graduated and laureated in that fcience ; on condition that he compofed one hundred Latin verfes in praife of the univerfity, and a Latin conedy. Another grammarian was dillinguifhed with the fame badge, after having fipulated, that at the next public act, he would affix the fame number of hexameters on the great gates of St Mary's church, that they might be feen by the whole univerlity. This was at that period the molt convenient mode of publication. About the fame time, onc Maurice Byrchenfaw, a fcholar in rhetoric, fupplicated to be admitted to read lectures, that is, to take a degrce in that faculty; and his petition was granted, with a provifion, that he fhould write one hundred verfes on the glory of the univerfity, and not fuffer Ovid's Art of Love, and the Elegies of Pamphilus, to be ftudied in auditory. Not long afterwards, one John Bulman, another rhetorician, having complied with the terms impofed, of explaining the firlt book of Tully's Offices, and likewife the firlt of his Epiltles, without any pecuniary emolument, was graduated in rhetoric ; and a crown of laurel was publicly placed on his head by the hands of the chancellor of the univerfity. About the year 1489 , Skelton was laureated at Oxford, and in the year 1493 was permitted to wear his laurel at Cambridge. Robert Whittington affords the laft infance of a rhetorical degree at Oxford. He was a fecular prieft, and eminent for his various treatifes in grammar, and for his facility in Latin poetry: having excreifed his art many ycars, and fubmitting to the cuftomary demand of a hundred verfes, he was honoured with the laurel in the year 15 t 2 .
"With regard to the poct laureate of the kings of England, he is undoubtedly the fame that is alyled the ling's verfifier, and to whom 100 fhillings were paid as his annual ftipend in the year $\mathbf{1 2 5 1}$. But when or how that title commenced, and whether this officer was ever folemnly crowned with laurel at his firlt inveftiture, I will not pretend to determine, after the fearches of the learned Selden on this queltion have proved unfucceffful. It feems moft probable, that the barbarous and inglorious name of versifier gradually gave tray to an appellation of more elegance and dignity: or rather that at length thofe only were in general invited to this appointment, who had received academical fanction, and had merited a crown of lanrel in the univerlities for their abilities in Latin compofition, particularly Latin verfification. Thus the king's laurente was nothing more than 'a graduated rhetorician employed in the fervice of the king.' That he originally wrote in Latin, appears from the ancient title versificator: and may he moreover collected from the two Latin poems, which Ballon and Gulielmus, who appear to have refpectively acted in the capacity of royal poets to Richard I. and Edward II. officially compofed on Richard's crufade, and Edward's fiege of Striveling caftle.
"Andrew Bernard, fucceffively poet laureate of Henry VII. and VIII, affords a filll ftronger proof
that this officer was a Iatin fcholar. He was a na- Lan! tive of Thouloufe, and an Augutine monk. He was II not only the king's poet laureate, as it is fuppofed, $\underbrace{\text { Laurti }}$ Lut his hilioriographer, and preceptor in grammar to Prince Arthur. He obtained many ecclefiaftical preferments in Eingland. All the pieces now to be found, which he wrote in the character of poet laureate, are in Latin. Thefe are, An Addrels to Henry VIlI. for the mof aufpicious beginning of the roth year of his reign, with an Epithalamium on the marriage of Francis the dauphin of France with the king's danghter;" A New Year's Gift for the year 1515 ; and, Verfes wilhing profperity to his majelly's I 3 th year. He has lefi fome Latin hymns; and many of his Latin profe pieces, which he wrote in the quality of hiltoriographer to both monarchs, are remaining.
" I am of opinion, that it was not cuftomary for the royal laureate to write in Englifh, till the reformation of religion had begun to diminith the veneration for the Latin language ; or, rather, till the love of novelty, and a better fenfe of things, had banifhed the narrow pedantries of monaftic erudition, and taught us to cultivate our native tongue."

Laurel. See Prunus and Laurus, Botany Index.

Laurels, pieces of gold, coined in the year 1619, with the king's head laureated, which gave them the name of laurels; the 20s. pieces whereof were marked with XX. the 10s. X. and the 5s. pieces with V.

## LaURENS Castra. See Laurentum.

LAURENTALIA, or Larentalia, called alfo Larentinalia, Laurentales, and Larentales, featts celebrated among the Romans on the 1 oth of the kalends of January, or 23 d of December, in memory of Acca Laurentia, wife of the fhepherd Fauftulus, and nurfe of Romulus and Remus.

Acca Laurentia, from whom the folemnity took its name, is reprefented as no lefs remarkable for the beauty of her perfon, than her bafcivioufnefs; on account of which fhe was nick-named by her neighbours lupa, " fhe wolf;" which is faid to have given rife to the tradition of Romulus and Remus being fuckled by a wolf. She afterwards married a very rich man, who brought her great wealth, which, at her death, the left to the Roman people; in confideration whereof they performed to her thefe honours; though others reprefent the feaft as held in honour of Jupiter Latiaris. See Larentinalia and Lares.

LAURENTIUS, one of the firft printers, and, according to fome, the inventor of the art, was born at Haerlem about the year 1370, and executed feveral departments of magiffracy of that city. Thofe writers are miftaken who affign to him the furname of Coffer, or affert that the office of ædituus was hereditary in his family. In a diploma of Albert of Bavaria in 1380 , in which, among other citizens of Haer. lem, our Laurentius's father is mentioned by the name of Joannes Laurentii filius, Beroldus is called cedituus, who was furely of another family; and in 1396 and 1398 Henricus à Lunen enjoyed that office; after whofe refignation, Count Albert conferring on the citizens the privilege of electing their zedituus, they, probably foon alter, fixed on Laurentius: who was afterwards called $C_{y}$ fler from his office, and not from his family name, as he was defcended from an illegiti-

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Irentine, mate branch of the Gens Brederodia. His oftice was uren- very lucrative; and that he was a man of great property, the elegance of his houfe may teltify. That he was the inventor of printing, is afferted in the narrative of Junius. His firlt work was an Horarium, containing the Letters of the Alphabet, the Lord's Prayer, the Apoltles Creed, and two or three fhort Prayers; the next was the Specilum Salutis, in which he introduced pictures on zuoden blocks; then Donatus, the larger fize ; and afterwards the fame work in a lefs fize. All thefe were printed on Ceparate moveable wooden types faftened together by threads. If it be thought improbable, that fo ingenious a man lhould have proceeded no farther than the invention of wooden bypes; it may be anfwered, that he printed for profit, not for fame; and wooden types were not only ot that time made fooner and cheaper than metnl could be, but were fufficiently durable for the fmall imprefions of each book he muft neceflarily have printed.- His prefs was nearly ftaped like the common wine-preffes - He printed fome copies of all his books both on paper and vel?um. - It has bee: very erroneoully fuppofed, that he quitted the profeflion, and died broken hearted: but it is certain, that he did not live to fee the art brought to perfection.-He died in 1440, aged 70 ; and was fucceeded either by his fon-in law Thomas Peter, who married his only daughter Lucia; or by their immediate defcendants, Peter, Andrew and Thumas; who were old enough (even if their father was dead, as it is likely he was) to conduct the bufnefs, the elde!t being at lealt 22 or 23 . What books they printed it is not eafy to determine; they having, after the example of Laurentius (more ansious for profit than for fame), neither added to their books their names, the place where they were printed, nor the date of the year. Their firit effays were new editions of Donatus and the Specu/um. They afterwards reprinted the latter, with a Latin tranlation, in which they ufed their grandfather's wooden pictures: and printed the book partly on woodenblocks, partly on wooden feparate types, rccording to Mr Meerman, who has given an exact engraving of each for:, taken frons different parts of the fame book, which was publihed between the years 1442 and 1450 . Nor did they ftop here; they continued to print feveral editions of the Speculum, both in Latin and in Dutch; and many other works, particularly "Hiloria Alexandri Magni;" "Flavii Vedatii [for Vegetii] Renati Epitome de Re Militari :" and "Opera varia à Thomas Kempis." Of each of thefe Mr Meerman has given an engraved feecimen. They were all printed with feparaze wonden types; and, by their great neatnefs, are a proof that the defcendants of Laurentius were induftrious in improving his invention. Kempis was printed at Haerlem in 1472 , and was the lalt known work of Laurentius's defcendants, who Coon after difpoled of all their materials, and probably quitted the employment; as the ufe of fufil cypes wa) about that time univerfally diffufed through Hol. land by the fettling of Martens at Aloft, where he purfued the art with reputation for upwards of 60 years. See (Hifory of) Printing.

La URENTIUM, or Lavrens Castra, in Ancient Geography, a town of Latium, fuppofed to be the royal refidence of thofe mof ancient kings Latinus, Pisus, and Faunus, (Virgil), Hither the emperor

Commodus retire 1 durng a peftilence. Its name wss from an adjuining grove of bay trees, midway between Ollia and Anstum. Suppofed to have ftoud in the place now called San fomrenzo; which feems to be confirmed from the Via Laurentina lealing to Rome.

I, AURO, Philapio, a celebrated painter, was horn at Rame in 1623. He learned the firit rudiments of the art from his fat'ler Balthalar, who was himfelf a good painter. He afterwards ftudied under Angelo Carofello, his brothor-in lsw; and proved fo great a proficient, that in a flort time he far furpaffed his tutor in defign, colouring, and elegance of tate. He applied bimfelf to painting hilorical fubjects in a fmall lize, enriching the back grounds with lively landfcapes, that afforded the eye and the judgement equal entertain. ment; but though his fmall paintings are beft approved, he finithed feveral grand compofitions for altar pieces that were highly efteemed, He died in $169+$; and his works are eagerly bought uo at high prices all over Europe.

Lauro, or Laturon, in Ancient Geosraphy, a town of the Hither Spain, where Cn. Pompeius, Con of Pompey the Great, was defeated and flain. Now Lorigne, five leagues to the north of Liria in Valencia.

LAURUS, the bay tree, a genus of plants belonging to the enmeandria clafs; and in the natural method ranking under the 1 th order, Holoracere. See - Botany Index.

LAUS, or Laos, in Ancient Geograply, a river of Italy, feparating Lucania from the Brutiii, and ruaning from eaft to weft into the Tuican fea; with a cognominal bay, and a town, the latt of Lucania, a little above the fea; a colony from Sybaris, according to Strabo, Pliny, and Stephanus. Both town and river are now called Laino, in the Calabria Citra; and the bay called Golfo della Scalea, or di Policaflro, two adjoining towns, is a part of the Tufcan fea, extending. between the promontory Palinurus and the mouth of the Laus.

Laus Pompeia, in Ancient Geography, a town of Infubria, fituated to the ealt of Milan, between the rivers Addua and Lamber. A town built by the Boii after their paffing the Alps: its ancient Ganlic name is unknown. Strabo Pompeius, father of Pompey, leading thither colony, gave it a new name, and conferred the $y_{u s}$ Lntii on the ancient inhabitants who remained there. The modern Lodi is built from its ruins, at fome diftance off. E. Long. 10. 15. N. Lat. 45. 22.

LAUSANNE, a large, ancient, and handlome town of Switzerland, capital of the country of Vaud, and in the canton of Berne, with a famous college and bihop's fee. The townhoufe and the other public build-. ings are magnificent. It is feated between three hills near the lake of Geneva, in E. Long. 6.35. N. Lat. 46. 30.-The town fands on an afcent, fo fteep that in fome places the horfes cannot draw up a carriage without great difficulty, and foot paffengers afcend to the up. per parts of the town by lleps. Here is an academy for the fludents of the country; the profeffors are appointed by government ; and there is a pretty good public library. The church, formerly the cathedsal, is a magnificent Gothic building, flanding on the mofl elevated part of the town. Among other Cepulchres it. contains that of Amadxus VIII, duke of Savoy, Ityled.

## L A U [ 582.] L A V

$\underbrace{\text { Laxfane }}$ the Solomon of his age; beft tnown by the title of Antipope Folix V. who exhibited the fingular example of a man twice abdicating the 1 wereignty, and fetiring from regal pomp to a privatc flation.

The fame year that the country named Pays de Vand was conquered from the houfe of Savoy, the inhatitants of Laufanne put themelve; under the protection of the canton of Berne, their bithop having retired from the town. At that time its privileges were confirmed and augmented, and it is fill governed by its own magiftrates. The citizens of the principal flreet have the privilege of pronouncing fentence in criminal cafes. If the criminal is found, and acknowledges himfelf guilty, the burghers of the ftreet affemble; one of the magiffrates pleads in his behalf, and another againft him ; the court of juftice give their opinion upon the point of law ; and the majority of citizens pofiefling houfes in the priscipal ftreet, determine the penalty. In capital cafes there is no pardon, accord-
ing to the letter of the law, unlefs it can be obsained within 24 hours from the loveremg councal of Berne, though it generally liappens that eight days are allowed for this purpofe. When the criminal is leized within the jurifdiction of the town, the fast is tried, and the burghers pronounce fentence, from which there is no appeal ; but if he happens to be taken in the diftrie of the bailiff, there is an appeal to the government of Berne.

LAVORI, Terra di, a province of Italy, in the kingdom of Naples, bounded on the weft by the Campagna di Roma, and by Farther Abruzzo; on the north by the Hither Abruzzo, and by the county of Moliffa; on the eaft by Principata Ultra; and on the fouth by the Principata Citra. It is about $\sigma_{3}$ miles in length and 35 in breadth; and is fertile in corn, excellent vines, and other fruits. There are alfo feveral mineral fprings and mines of fulphur. Naples is the capital town.

## L A W.

## PART I. OF THE NATURE OF LAWS IN GENERAL.

Definition; General, and

LAW, in its mont general and comprehenfive fenfe, fignifies a rule of action; and is applied indifcriminately to all kinds of action, whether animate or inanimate, rational or irrational. Thus we fay, the laws of motion, of gravitation, of optics, of mechanics, as well as the laws of nature and of nations. And it is that rule of action which is preferibed by fome fuperior, and which the inferior is bound to obey.

Thus when the Supreme Being formed the univerfe, and created matter out of nothing, he impreffed certain principles upon that matter, from which it can never depart, and without which it would ceafe to be. When he put that matter into motion, he eftablifhed certain laws of motion, to which all moveable bodies muft conform. And, to defcend from the greateft operations to the fmalleft, when a wotkman, forms a clock, or other piece of mechanifm, he eftablifies at his own pleafure certain arbitray laws for its direction; as, that the band thall defcribe a given fpace in a given time; to which law as lorg as the work conforms, fo long it continues in perfection, and anfwers the end of its formation.

If we father advance, from mere inalive matter to vegetable and animal life, we fhall find them fill governed by laws; more numerous indeed, but equally fixed and invariable. The whole progrefs of plants, from the feed to the root, and from thence to the feed again ; the method of animal nutrition, digeftion, fecretion, and all other branches of vital economy; are not left to ch:ance, or the will of the creature itcelf, bit are performed in a wondrous involuntary mnanner, and guided by unerring rules laid down by the great Creator.

This then is the general fignification of law, a rute of attion dietated hy fome furerior bcing: and." in thofe creatures that have ncither the porer to think
nor to will, fuch laws muf be invariably obeyed, fo long as the creature itfelf fubfifts; for its exiftence depends on that obedience. But laws, in their more confined fenfe, and in which it is our prefent bufinefs to confider them, derote the rules, not of action in general, but of human action or conduct : that is, the Particqla precepts by which man, the nobleft of all fublunary beings, a creature endowed with both reafon and free will, is commanded to nake ufe of thofe faculties in the general regulation of his belaviour.
Man, confidered as a creature, muft necefiarily be fubject to the laws of his Creator, for he is entirely a dependent being. A being, independent of any other, had no rule to purfue but fuch as he prefribes to himfelf; but a fate of dependance will inevitably oblige the inferior to take the will of him on whom he depends as the rule of his conduct ; not indeed in every particular, but in all thofe points wherein his dependance confilts. This principle therefore has more or lefs cxtent and effect, in proportion as the fuperiority of the one and the dependarice of the other is greater or lefs, abfolute or limited. And confequently, as man depends abfolutely upon his Maker for every thing, it is neceflary that he flould in all points conform to his Maker's will.
This will of his Maker is called the law of nature. Law of ${ }^{3}$ For as God, when he created matter, and endued it nature. with a principle of mobility, eftablifhed certain rules for the perpetual direction of that motion; fo, when be created man, and endued him with free will to con. duct himfelf in all parts of life, he laid down cortain immutable laws of human nature, whercby that free wiil is in fome degrce regulated and rellrained, and gave him alfo the faculty of seafon to difcover the ,urport of infle laws.

Confidcring the Creatos only as a being of infinite power,

## rt I.

I. A W.

- Lavis power, be was able unquefliciahly to have preferibed ceneral. whatever laws he pleafed to his creature man, however unjult er eevere. But as lie is alfo a Being of infinite vificom, he has laid down only fuch laws as were founded in thofe relations of juaice, that exifted in the nature of things antecedent to any pofitive precept. Thefe ase the eternal immutable laws if good and evil, to which the Crentor himfelf in all his difpenfations cenforme; and which he has cmabled human reafor to difcover, fo $f_{25}$ as they are necelfary for the conduct of human a min. Such, among others, are thefe prinriples: That we fhould live honefly, flould tuat nobody, and thould render to every onchis cue ; to which three general precepts Jultinian has reduced the whole doctrine of law.

But if the difcovery of thefe firf principles of the lave of nature depended only upon the due exertion of right reafon, and could not otherwife be obtained than hy a chain of metaphyfical difquifitions, mankind would have wanted forme inducement to have quickened their inquiries, and the greater part of the world would have retled content in mental indolence, and ignorance its infeparable companion. As therefore the Creator is a being, not only of infinite power and wifdom, but alto of infinite goodnefs, he has been pleafed fo to contrive the conflitution and frame of bumanity, that we flould want no other prompter to inquire after and purfue the rule of right, but only our own felf-love, that univerfal primciple of action. For he has fo intimately connected, fo infeparably interworen, the laws of eternal juftice with the happinefs of each individual, that the latter cannot be attained but by obferving the former; and if the former be puncually obeyed, it cannot but induce the latter. In confequence of which mutual connexion of juffice and human felicity, he has not perplexed the law of nature with a multitude of abifracted rules and precepts, referring mere:y to the fitnefs or unfitnefs of things, as fome have vainly furmifed; but has gracioully reduced the rule of obedience to this one paternal precept, " that man fhould purfue his own happinef." This is the foundation of what we call ethics, or natural law *. For the feveral articles into which it is branched in our fyitems amount to no more than demonftrating, that this or that action tends to man's real happinefs, and therefore very jufly concluding, that the performance of it is a part of the law of nature"; or, on the other hand, that this or that action is deftructive of man's real liappinefs, and therefore that the law of nature forbids it.

This law of nature, being coeval with mankind, and dietated by God himfulf, is of courle fuperior in obligation to any other. It is binding over all the globe, in all countries, and at all times: tho human lairs are of any validity. if contrary to this, and fuch of them as are valid derive all their force, and all their authority, mediately or immediately, from this original.

But in order to apply this to the patticular exigenries of each individual, it is nill neceflary to have recourfe to reafon : whofe office it is to difcover, as was before obferved, what the law of nature directs in every circumfance of life, by confidering, what method will tend the mofl effectually to our own fubitantial laprincts. And if oar reafon were always, as in our firf an:ecfor before his tranfgreftion, clear and perfcet,
unruffled by paffions, unclouded by prejudice, unim0 ก.aws [mined by difeafe or intemprance, the talk wonld he in general. pleafant and eafy; we flould need no other guice but this. But every man now finds the contrary in his own experience; that his reafon is conupt, and his underflanding full of ignorance and errne.

This has givgn manifold occat:on for the benign interpofition of Divine Providence; which, in comp: Thowto the frailty, the imperfection, and the blindin's of human reafon, hath been plealed, at fundry times and in divers manners, to difcover and enforce its laws by an immediase and direct revelation. The doarines Law of Re: thus delivered, we call the revealed or disine lax, and velation. they are to be found only in tho Hcly Scriptures. Jhefe precepts, when revealed, are fourd upon comparifon to be really a part of the original laiv of nature, as they tend in all their confequences to man's felicity. But we are not from thence to conclude, that the knowledge of thefe truths was attainable by reafon in its frefent corrupted flate; fince we find, that, until they were revealed, they were hid from the widdom of ages. As then the moral precepts of this law are indeed of the fame nriginal with thofe of the law of nature, fo their intrinfic obligation is of equal Arengtla and per-petuity. Yct undoubtedly the revealed law is of infinitely more authenticity than that moral fyllem which is framed by ethical writcrs, and denominated the natural law: becaufe one is the law of nature, exprefsly declared fo to be by God hiufelf; the orber is only what, by the alfiftance of hurvan reafon, we imagine to be that law. If we could be as certain of the latter as we are of the former, both would have an equal authority: but till then they can never be put in any competition together.
Upon thefe two foundations, the law of nature and the law of revelation, depend all human laws; that is to fay, no human laws fhould be fuffered to contradict thefe. There are, it is true, a great number of indifferent points, in which both the divinc law and the natural leave a man at his own liberty ; but which are found neceflary, for the benefit of fociety, to be reflrained within certaiu limits. And hercin it is that human laws have their greateft force and efficacy: for, with regard tn fuch points as are not indifferent, human laws are only declarasnry of, and act in fubordination to, the former. To inftance in the cafe of murder: this is exprefsly forbidden by the divine, and demonftrably by the natural, latw ; and from thefe prolibitions arifes the true unlawfulnefs of this crime. Thofe human laws that annex a punifthment to it, do not at all increafe its moral guilt, or fuperadd any frefh obligation in foro confientic to abfain from its perpetration. Nay, if any human lav fhould allow or enjoin us to commit it, we are bound to tranigrefs that human lave, or clee we nuft offend both the natural and the divine. But with regard to matters that are in thenfelves indifferent, and are not commanded or forbidden by thofe fuperior lans; fuch, for inftance, as exporting of wool into forcign countries; here the inferior legillature has foope and opportunity to interpofe, and to make that action unlawful which before was not fo.

If man were to live in a flate of nature, unconneded with other individuals, there would be no occafion for any other laws than the laiv of nature and the lats of God. Neither could any other law poffibly exift:

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for a lar:. always fuppoles fome fupenior who is to make it; ard in a flate of nature we are all equal, without any other fuperior but him who is the Author of our beiag. But man was formed for fociety; and, as is demenftrated by the writers on this fubject, is neither capable of living alone, nor indeed has the courage to do it. However, as it is impoffible for the whole race of mankind to be united in one great fociety, they muft neceflarily divide into many; and form feparate ftates, commonwealths, and nations, entirely independent of each other, and yet liable to a mutual intercourfe. Hence arifes a third lind of law to regulate this mutual intercourfe, called the law of nations: which, as none of thefe fates will acknowledge a fuperionity in the other, cannot be dictated by either; but depends entirely upon the rules of natural law, or upon mutual compacts, treaties, leagues, and agreements, between thefe feveral commmities : in the conftruction alfo of which compacts we have no other rule to refort to but the law of nature; being the only one to which both communities are iqually fubject: and therefore the civil law very jully obferves, that quod naturalis ratio inter omnes homines confituit, vocatur jus gentium.

To the conlideration, then, of the law of nature, the revealed law, and the law of nations, fucceeds that of the municipal or civil law ; that is, the rule by which particular diftricts, communities, or nations, are governed; being thus defined by Juftinian, " jus cisule eft quod quifque fabi populus confituit. We call it muncipal law, in compliance with common feech; for though, Atrictly, that expreffion denotes the particular cuftems of one fingle municipinm or free town, yet it may with fufficient propriety be applied to any one fate or nation which is governed by the fame laws and cuftems.

Municipal law, thus underfood, is properly defined to be " a rule of civil conduct prefcribed by the fupreme power in a ftate, commanding what is right, and prohibiting what is wrong." Let us endeavour to explain its feveral properties, as they arife out of this definition.

And, firf, it is a rule: not a tranfient fudden order from a fuperior to or concerning a particular perfon ; but fomething permanent, uniform, and univerfal. Therefore a particular act of the legiflature to confifcate the goods of Titius, or to attaint him of high treafon, does not enter into the idea of a municipal law: for the operation of this act is \{pent upon Titius only, and has no relation to the community in general ; it is rather a fentence than a law. But an act to declare that the crime of which 'litius is accufed fhall be deemed high treafon; this has permanency, uniformity, and univerfality, and therefore is properly a rule. It is alfo called a rule, to diftinguif it from advice or counfil, which we are at liberty to follow or not as we fee proper, and to judge upon the reafonablenefs or unreafonablenefs of the thing advifed: whereas our obedience to the law depends not upon our approbation, but upon the Maker's will. Counfel is only matter of perfuafion, law is matter of injunction; coundel acts on?y upon the willing, law upon the unwilling alfo.

It is allo called a rude, to diftinguinh it from a compact or arrcoment ; for a compan is a promife proceeding from us, law is a command disected to us. The
language of a compact is, "I rill, or will not, do this;" Of ta that of a law is, "Thou fhalt, or thalt not, do it." in gen. It is true there is an obligation which a compact carries with it, equal in point of confcience to that of a law; but then the original of the obligation is different. In compacts, we ourfelves determine and promife what thall be done, before we are obliged to do it ; in laws, we are obliged to act without ourfelves determining or promifing any thing at all. Upon thefe accounts law is defined to be " a rule."

Municipal law is alfo " a rule of civil conduc7." Second This diftinguiftes municipal law from the natural or perty. revealed : the former of which is the rule of moral conduct ; and the latter not only the rule of moral conduct, but alfo of faith. Thele regard man as a creature; and point out his duty to God, to himfelf, and to his neighbour, confideted in the light of an individual. But municipal or civil law regards bin alfo as a citizen, and bound to other duties towards his neighbour, than thofe of mere nature and religion: duties, which he has engaged in by enjoying the benefits of the common union; and which amount to no more, than that he do contribute, on his part, to the fubfiftence and peace of the fociety.

It is likewife "a rule preforibed." Becaule a bare Third refolution, confined in the breaft of the legiflator, with-perty. out manifefting itfelf by fome external fign, can never be properly a law. It is requifite that this refolution be notified to the people who are to obey it. But the manner in which this notification is to be made, is matter of very great indifference. It may be notified by univerfal tradition and long prastice, which fuppofes a previous publication, and is the cafe of the common law of England and of Scotland. It may be notified viva voce, by offieers appointed for that purpofe; as is done with regard to proclamations, and fuch acts of parliament as are appointed to be publicly read in churches and other affemblies. It may, laftly, be notified by writing, printing, or the like; which is the general courfe taken with all our aets of parliament. Yet, whatever way is made ufe of, it is incumbent on the promulgators to do it in the moft public and perfpicuous manner; not like Caligula, who (according to Dio Caffius) wrote his laws in a very finall character, and hung them up upon high pillars, the more effectually to enfuare the people. There is ftill a more unreafonable method than this, which is called making of laws ex pofl facto; when after an action (indifferent in itfelf) is committed, the legilator then for the firft time declares it to have been a crime, and intlicts a puniflment upon the perfon who has committed it. Here it is impoffible that the party could forefee, that an action, imnocent when it was done, thould be afterwards converted to guilt by a fubfequent law : he had therefore no caufe to abftain from it ; and all puniftment for not abfaining mult of confequence be cruel and unjuft. All laws fhould be therefore made to commence in fururo, and be notified before their commencement; which is implied in the term "prefcribed." But when this rule is in the ufual manner notified or prefcribed, it is then the fubject's bufinefs to be thoroughly acquainted therewith; for if ignorance of what be might know, were admitted as a legitimate excufe, the lairs would be of no effect, but might alwajs be eluded with impunity.

But turther: Nunicipal taw is "a rule of civil conduet prefcibed by thi fupreme power in a fate." For leginature, as was before cbferved, is the greatef act of luperioritv that can be exereifed by one benig over another. Wh.erefore it is requifite to the very effence of a law, that it be made by the fupreme power. Sovereignty and legillature are indeed convertible terms; one cannot fubfilt without the other.

This will naturally lead us into a fhort inquiry concerning the nature of fociety and civil government; and the natural inherent right that belongs to the forereignty of a fate, wherever that fovereignty be lodged, of making and enforcing laws.

The only true and natural foundations of fociety are the wants and fears of individuals. Not that we can believe, with fome theoretical writers, that there ever was a time when there was no fuch thing as fociety; and that, from the impulfe of reafon, and through a fenfe of their wants and weaknelfes, individuals mact together in a large plain, eritered into an original contrat, and chofe the talleft man prefent to be their governor. This notion, of an aetually exifting unconnecied Itate of nature, is too wild to be ferioully admitted : and belides, it is plainly contradictory to the revealed accounts of the primitive origin of mankind, and their prefervation 2000 years afterwards; hoth ":ich were effected by the means of fingle families. Thefe formed the firit fociety among themfelves, Hhich every day extended its limits; and when it grew too large to fublift with convenience in that paftoral ftate wherein the patriarchs appear to have lived, it necellarily fubdivided iffelf by various enigrations into more. Afterwards, as agriculture increafed, which employs and can maintain a much greater number of hands, migrations became lefs frequent; and various tribes, which had formerly feparated, reunited again; fometimes by compulfion and conquef, fometimes by accident, and fumetimes ferhaps by compact. But though fociety had not its formal beginriir:g from any convention of individuals, actuated by their wants and Wheir fears; yet it is the fenfe of their weaknefs and imperfection that keeps mankind together, that dezonffrates the neceflity of this union, and that therefore is the folid and natural foundation, as trell as the cement, of fociety. And this is what we mean by the original contract of fociety; which, though perhaps in no inflance it has ever been formally expreffed at the firf inflitution of a flate, yet in nature and reafon muft always be underflood arid implied in the very act of affociating together; namely, that the whole flould protect all its parts, and that cvery part thould pay ubedience to the will of the whole; or, in other words, that the communi:y fhould suard the rights of each individual member, and that (in return for this protection) each individual fhould fubmit to the laws of the community; without whicl fubrifition of all, it was impoffible that protection could be certainly extended to any.
For when fociety is once formed, government refults of cuirfe, as necefiary to preferre and to lieep that fociety in order. Unlefs fome fuperior be conflituted, whofe commands and decifons all the members are tound to obey, they would fill remain as in a flate of nature, without any judge upon earth to detine their feveral rights, and redrefs their feveral wrongs. But
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as all the members of fociely are miturally equal, it oilaws may be afked, In whele hands are the reins of yovern- $\underbrace{\text { int gutait }}$ ment to be intrulled? To this the general anfwer is eafy; bat the application of it to particular cafes has ocearioned one half of thofe mifchicts which are ap: to proceed from mifguided political zeal. In general, ail mankind will agree, that soverment foould be repofed in fuch perfors, in whom thofe cqualities are moft likely to be found, the perfection of which is among the attributes of him who is emphatically flyled the Supremce Being; the thrce grand requifitec, namely, of wifdem, of roodnets, and of power: wifdom, to dicern the real interelt of the community; goodnefs, to endeavnur always to parfue that real interelt ; and frength or power to carry this knowledge and interstion into action. Thefe are the natural foundations of furereignty, and hiefe are the requifites that ought to be found in every well conilituted frame of government.

How the feveral forms of government we now fec in the rrorld at firft actually began, is matter of great uncertainty, and has occalioned infifite difputes. It is not our buinefs or intention to enter iato any of them. However they began, or by what right foever they fubliit, there is and munt be in all of them a fupreme, irrefflible, abfolute, uncontroiled authority, in which the jura fummi imperii, or the rights n! lovereignty, refice. And this au:hority is placed in thofe hands, wherein (according to the opinion of the founders of fuch refpechive flates, either exprefly given os colleçed from their tacit approbation) the qualitics requitite for Cupremacy, wifdom, goodnefs, aud power, are the mof likely to be found.
The political writers of antiquity will rot allow Dificerens more than three regular forms of goverment : the fint, toras when the fovereign power is lodged in an aggregate thereof. affermbly confifing of all the members of a community, which is called a democracy; the fecond, when it is lodged in a council compoled of leiect members, and then it is flyled an ariffocracy; the laft, when it is intrulled in the hands of a iingle perfon, and then it takes the nime of a monarchy. All other pecies of government, they fay, are cither corruptions of, or reducible to, thefe three.

By the lovereign powts, as was lefore obferred, is meant the maling of laws; for whesever that poser refides, all others muft conform to and be direated by it, whatever appearance the outward form and acmi. niffation of the government may put on. For it is at any time in the eption of the legillature to a'ter that form and adminitiration by a new cdict or ru'e, and to put the execution of the laws into whaterer hands it pleafes: and all the other powers of the fate muft ober. the leginative power in the execution of their fercral functions, or elfe the conflitution is at an end.

In a democracy, where the right of making laws refides in the peuple at large, public wiztue or gooint's of intention is more likely to be found than cille: of the other ģualitie: of government. Popular afiemtles are frequeitly foolifi in their contrivance, and weak in their execution; but generally frean to d, the thing that is right and juff, and lave alvays a deg, 14 off natriotifm or puldic pipitit. In arilt cracies there is more wiftom to be found than in the ofler forms of govermment; being compole $\alpha$, of intendes to be crim-
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fofed, of the moft experienced citizens: but there is lefs honefty than in a republic, and lefs frength thans in a monarchy. A monarchy is indeed the moft powerful of any, all the finews of government being linit and united together in the hand of the prince; but then there is imminent danger of his employing that ftiength to irrprovident or opprellive purpofes.

Thus thefe three fpecies of government have all of them their feveral perfections and imperfections. Democracies are ufually the belt calculated to direct the end of a law ; aritocracies, to invent the means by which that end thall be obtained; and morarchies, to carry thofe means into execution. And the ancients, as was obferved, had in general no idea of any other permanent form of government but thefe three : for though Cicero declares himfelf of opinion, "effe opiimè confitutam rempublicam, quce ex tribus generibus illis, regali, optimo, st populari, $\sqrt{t t}$ modic: confufa;" yet 'Tacitus treats this notion of a mixed government, formed out of them all, and partaking of the advantages of each, as a vifionary whim, and one that, if effected, could never be lafting or fecure. flitution has long remained, and we truft will long con- tinue, a fanding exception to the truth of this obfervation. For, as with us the executive power of the laws is lodged in a fingle perfon, they have all the advantages of Atrength and defpatch that are to be found in the mofl abfolute monarchy: and, as the legillature of the kingdom is intrufted to three diffinat powers, entirely independent of each other; firt, the king; fecondly, the lords firitual and temporal, which is an ariftocratical affembly of perfons felected for their piety, their birth, their wifdom, their valour, or their property; and, thirdly, the houfe of commons, freely chofen by the people from among themfelves, which makes it a kind of democracy; as this aggregate body, actuated by different fprinigs and attentive to different interefts, compofes the Britih parliament, and has the fupreme difpofal of every thing, no immovation can be attempted by either of the three branches, but will be withlood by one of the other two, each branch being armed with a negative power fufficient to repel any new meafure which it thall think inexpedient or dangerous.

Here, then is lodged the fovereignty of the Britifh confitution; and lodged as benencially as is poffible for fociety. For in no other flape could we be fo certain of finding the three great qualities of government fo well and fo happily united. If the fupreme power were lodged in any one of the three branches feparately, we mutt be expofed to the inconveniences of -ither abfolute monarchy, aiifocracy, or democracy; and fo want tro of the three principal ingredients of wood polity, cither virtue, wifdon, or power. If it were lodged in any two of the branches; for inftance, in the king and houfe of lords; our laws might be providently made and well executed, but they might not alvays have the good of the people in view : if lodged in the king and commons, we flould want that circumfpection and mediatory cautio:, which the wifdom of the peenc is to afford: if the lupreme rights of legillature were lodged in the two houfes only, and the king had no negative upon their proceedings, they might be tempted to encroach upon the royal prerogative, or per-
haps to abolifh the kingly office, and thereby weaken (if not totally deffroy) the ftength of the executive power. But the conflitutional government of this ifland is fo admirably tempered and compounded, that nothing can endanger or hurt it, but deftroying the equilibrium of power between one branch of the legiflature and the refl. For if ever it fhould happen, that the independence of any one of the three fhould be loft, or that it thould become fublervient to the views of either of the other two, there would foon be an end of our conflitution. The legillature would be changed from that which was originally fet up by the general confent and fundamental act of the fociety, and Such a change, however efficted, is, according to Mr Locke (who perhaps carries his theory too far), at once an entire diflolution of the bands of gevernment ; and the people are thereby reduced to a fate of anarchy, with liberty to conflitute to thenifelves a new legilative power.
Having thus curforily confidered the three ufual fpecies of government, and our own fingular confitution felec̣ted and compounded from them all, we proceed to obferve, that, as the power of making laws conflitutes the fupreme authority, fo wherever the fupreme authority in any flate relides, it is the 1ight of that authority to make laws; that is, in the words of our defnition, to preferile the rule of civil action. And this may be difcovered from the very end and inftitution of civil hates. For a ftate is a cullective body, compofed of a multitude of individuals, united for their fafety and convenience, and intending to act together as one man. If it is therefore to $u$ ! 1 as one man, it ought to act by one uniform will. But, inafinuch as political communities are made up of many natural perfons, each of whom has his particular will and inclination, thefe feveral wills cannot by any natural union be joined together, or tempered and difpofed into a lafting harmony, fo as to conftitute and produce that one uniform will of the whole. It can therefore be no otherwife produced than by a political union; by the confent of all perfons to fubmit their own private wills to the will of one man, or of one or more affemblies of men, to whom the fupreme authority is intrulted; and this will of that one man, or affemblage of men, is in different fates, according to their different conflitutions, underitood to be law:.

Thus far as to the right of the fupreme power to make laws : but farther, it is its duty likewife. For fince the refpective members are bound to conform themfelves to the will of the flate, it is expedient that they receive directions from the itate declaratory of that its will. But it is impoffible, in fo great a multitude, is give injunctions to every particular man, relative to each particular action, therefore the fate eftablithes general rules, for the perpetual information and direction of all perfons in all points, whether of pofitive or negative duty: and this, in order that every man may know what to look upon as his own, what as another's; what abfolute and what relative duties are reqnired at his hands; what is to be efteemed honelf, dilioneft, or indifferent; what degree every man retains of his matural liberty, and what he has ğiven up as the price of the benefits of fociety; and after what manner each perfon is to moderate the ufe and cxeacife of thofe rights which the fate affigns
lim, in order to promote and fecure the public tran- quillity.

From what has been adranced, the truth of the former branch of our definition is (we truft) fufficiently evident; that " municipal law is a rule of civil conduct, prefcribed by the fupreme power in a fate." We proceed now to the latter branch of it ; that it is a rule fo preferibed, "commanding what is right, and prohibiting what is wrong."

Now, in order to do this completely, it is firl of all neceffary that the boundaries of right and wrong be eftablilhed and afcertained by law. And when this is once done, it will follow of courfe, that it is likewife the bufinefs of the law, confidered as a rule of civil conduet, to enforce thele rights, and to rellrain or redrefs thefe wrongs. It remains therefore only to confider, in what manner the law is faid to afcertain the boundaries of right and wrong; and the methods which it makes to command the one and prohibit the other.

For this purpofe, every law may be faid to confin of feveral parts; one, declaratory; whereby the rights to be obferved, and the wrongs to be efchewed, are clearly defined and laid down : another, directory; whereby the fubject is intrufted and enjoined to obferve thofe rights, and to abltain from the commiffion of thofe wrongs: a third, remedial; whereby a method is pointed out to recover a man's private rights, or redrefs his private wrongs: to which may be added a fourth, ufually termed the fanction or vindicatory branch of the law; whereby it is fignified what evil or penalty fad be incurred by fuch as comnit any public wrongs, aud tranfgrefs or neglect their duty.

With regard to the firft of thefe, the declaratory part of the municipal law; this depends not fo much upon the law of revelation or of nature, as upon the widdom and will of the legillator. This doctrine, which before was ilightly touched, delerves a more particular explication. Thofe rights, then, which God and nature have eftablinied, and are therefore called natural rights, fuch as are life and liberty, need not the aid of human laws to be more effectually invefted in every man than they are; neither do they receive any additional Atrength when declared by the municipal laws to be inviolable. On the contrary, no human legiflature has power to abridge or deftroy them, unlefs the owner fhall himfelf commit fome act that amounts to a forfciture. Neither do divine or natural ducies (fuch as, for inflance, the worthip of God, the maintenance of children, and the like) receive any Itronger fanction from being alfo declared to be duties by the law of the land. The cale is the fame as to crimes and mifdemeanors, that are forbidden by the fuperior laws, and therefure flyled mala in fe, fuch as murder, theft, and perjury ; which contraet no additional turpitude from being declared unlawful by the inferior legillature. For that legiflature in all thefe cales acts only, as was before oblerved, in lisbordination to the Great Lawgiver, tranfcribing and publifing his precepts. So that, upon the whole, the declaratory part of the municipal law has no force or operation at all, with regard to actions that are naturally and intrinfically right or wrong.

But with regard to things in themfelves indifferent, the cafe is entirely altered. Thefc become either right
or wrong, juft or unjuft, duties or mifdemeanors, ac- Of Lowrs cording as the municipal legillator lees proper, for $\underbrace{i n g e n e r a l, ~}$ promoting the welfare of the fociety, and more effectually carrying on the purpofes of civil life. Thus our own common law has declared, that the goods of the wife do inftantly upon marriage become the property and right of the humband; and our ftatute law has cleclared all monopolies a public offence: yet that right, ard this offence, have no foundation in nature; but are merely created by the law, for the purpofes of civil fociety. And fometimes, where the thing itfelf has its rile from the law of nature, the particular circumflances and mode of doing it become right or wrong, as the laws of the land flall direst. Thus, for inftance, in civil duties; obedience to fuperiors is the dactrine of revealed as well as natural religion : but who thole fuperiors Mall be, and in what circumfances, or towhat degrees they thall be ubeyed, is the province of human laws to determine. And fo, as to injuries or crimes, it muft be left to our own legiflature to decide, in what cafes the feizing another's cattle fhall amount to the crime of robbery; and where it fhall be a juftifiable action, as when a landlord takes them by way of dittrefs for rent.

Thus much for the declaratory part of the municipal Direstory law : and the directory flands much upon the farne part. footing ; for this virtually includes the former, the declaration being ufually colletted from the direction. The law that fays, "Thou thalt not fteal," implies a declaration that ftealing is a crime. And we lase fecrn, that, in things naturally indifferent, the very cifence of right and wrong depends upon the direction of the laws to do or to omit them.

The remedial part of a law is fo neceftary a coufe-Renedial quence of the two former, that laws mult be very ${ }^{\text {part. }}$ vague and imperfes without it. For in vain would rights be declared, in wain directed to be obferved, if there were no method of recovering and afierting thole rights when wrongfully withheld or invaded. 'This is what we mean properly, when we fpeak of the protection of the law. When, for inftance, the declaratory part of the law has faid, that the field or inheritance which belonged to Titius's father is vefted by his death in Titius," and the clirectory part has "forbidden any one to enter on another's property without the leave of the owner;" if Gaius after this will prefume to take poffeffion of the land, the remedial part of the law will then interpofe its office; will make Gaius reftore the poffeffion to 'litius, and alfo fay' him damages for the invafion.

With regard to the fanction of laws, or the evil that may attend the breach of public duties; it is obferved, that human legillators have for the moft part chofen to make the fanction of their laws rather vindicatory than remuneratory, or to confill rather in punifhments than in astual particular rewards: Becaufe, in the firt place, the quict enjoyment and protestion of all our civil rights and liberties, which are the fure and general conlequence of obedience to the municipal law, are in themfelves the beft and noth, valuable of all rewards : becaufe alfo, were the exercife of every virtue to be enforced by the propofal of particular rewards, it were impoliible for any flate to furninh ftock enough for fo profufe a bounty; and farther, becaufe the dread of evil is a much more forcible

DiJairs principie of hunan actions than the profpeet of good. in genarel. For which reafons, though a prudent beltownes of reisards is fometimes of exquilite ule, yet we find that thore civil laws, which enferce and enjuin our duty, do feldom, if ever, propole any privilege or gift to luch as obey the law; but do cuntantly come armed with a pealty dencunced agaialt tranlyreflors, either expressly delining the mature and qumity of the punihment, or elie leaving it to the difcretion of the judges, and thofe $w^{-1} 10$ are intruted with the care of putting

Of all the parts of a luw the mont effectual is the rinGiccotow. For it is but loft labour to fay, "Do this, or avoid that," mulefs we allo deciare, "This frall be the confequence of your noncompliance." We mult there. fore oblerve, that the main trength and force of a law confits in the penalty annexed to it. Herein is to be found the principal obligation of human laws.

Legilators and their laws are laid to compel and ablise: not that, by amy natural violence, they fo conftrain a man as to render it impofible for him to act othersife than as they direct, which is the frict fenfe of obligation; but becaufe, by declaring and exhibiting a penalty againtt offenders, they bring it to pals that no man can calily choofe to tranfgrefs the law; fince, by reafon of the impending correction, compliance is in a high degrec preferable to difobedience. And, even where rewards are propofed as well as punilhments threatened, the obligation of the law feems chiefly to confit in the penalty: for rewards, in their nature, can only perfuade and allure; nothing is compulfory but punifmment.

It has been held trae, and very juftly, by the principal of our ethical writers, that human laws arc binding upon men's coufciences. But if that were the only or moft forcible obligation, the good only would regard the laws, and the bad would let them at defance. And, true as this principle is, it muft fill be underftood with fome reftriction. It holds, we apprehend, as to rights; and that, when the law has determined the field to belong to 'Titius, it is a matter of confcience no longer to withhold or to invade it. So allo in regard to natural duties, and fuch offences as are mala in fe: here we are botind in confcience, becaule we are bound by fuperior laws, before thofe human laws were in being, to perform the one and abfain from the other. But in relation to thofe laws which enjoin only pofitive duties, and forbid only fuch things as arc not mala in fe, but mala prohibita merely, without any intermixture of moral guilt, annexing a penalty to noncompliance ; here confcience feems to be no farther concerned, than by directing a fubmiftion to the penalty, in cafe of our breach of thof laws: for othervife the multitude of penal laws in a flate would not only be looked upon as an impolitic, but would alfo be a very wicked, thing; if every fuch law were a fnare for the confcience of the fubjeet. But in thefe cafcs the alternative is offered to cvery man; "either abllain from this, or fubmit to fuch a penalty;" and lis confcience will be clear whichever fide of the alternative he thinks proper to embrace. Thus, by the statutes for preferving the game, a penalty is denounced againft every unqualified perfon that kills a hare, and -gainft cvery perfon who pofieffes a partridge in Au.Aft. And lo too, by other ftatutes, pecuniary pe-
nalties are inflicted for excrcifing trades without fersins an apprenticelhip theretn, for erceting cottages without amexing four acres of land to each, for not burying the dead in woollen, for not performing ftatute work on the public roads, and for innumerable other pofitive mifdemeanors. Now thefe prohibitory laws do not make the tranfgreffion a moral offence, or fin: the unly obligation in confcience is to fubmit to the penalty, if levied. It mult, however, be obferved, that we are here fpeaking of laws that are fimply and purely penal, where the thing forbidden or enjoined is wholly a matter of indifference, and where the penalty inflicted is an adequate compenfation for the civil inconvenience fuppofed to rife from the offence. But where difobedience to the law involves in it allo any degree of public mifchief or private injury, there it falls within our former diftinction, and is alfo an offence againt confcience.

We have now gone through the definition laid down of a municipal law; and have lhown that it is "a rule-of civil conduct-prefcribed-by the fupreme power in a fate-commanding what is right, and probibiting what is wrong: " in the explication of which we have endeavoured to interweave a few ufeful principles, concerning the nature of civil government, and the obligation of human laws. Before we conclude this part, it may not be amifs to add a few obfervations concerning the interpretation of laws.

When any doubt arofe upon the confruction of the of the $i^{22}$ Roman laws, the ufage was to flate the cale to the terpreta. emperor in writing, and take his opinion upon it. tion of This was certainly a bad method of interpretation. To interrogate the legiflature to decide particular difputes, is not only endlefs, but affords great room for partiality and oppreffion. The anfwers of the emperor were called his refcripts, and thefe had in fucceeding cales the force of perpetual laws; though they ought to be carefully diftinguifhed, by every rational civilian, from thole general conftitutions which bad only the nature of things for their guide. The emperor Macrinus, as his hiftorian Capitolinus informs us, had once refolved to abolith thefe refcripts, and retain only the general edicts: he could not bear that the hafty and crude anfwers of fuch princes as Commodus and Caracalla fhould be reverenced as laws. But Juftinian thought otherwife, and he has preferved them all. In like manner the canon laws, or decretal epiftles of the popes, are all of them refcripts in the ftricteft fenfe. Contrary to all true forms of reafoning, they argue from particulars to generals.

The fairelt and mofl rational method to interpret the will of the legiflator, is by exploring lis intentions at the time when the law was made, by figns the moft natural and probable. And thele figns are cither the words, the context, the fubject-matter, the effects and confequence, or the firit and reafon of the law. Let us take a thort view of them all.

1. Words are generally to be underftood in their ufual and moft known fignification; not fo much regarding the propriety of grammar, as their general and popular ufe. 'Ihus the law mentioned by Puffendorf, which forbade a layman to lay hands on a prief, was adjudged to extend to him who had hurt a prieft with a weapon. Again: 'Ierms of art, or technical terms, muft be taken according to the accoptation of
the learned in each art, trade, and frience. So in the at of fettement, where the crown of England is limited "to the priaccls Sophia, and the beirs of her body being Proteflants," it becomes necelfary to call in the aflitance of lavyers, to afcertain the precife idea of the words "heirs of her body;" which in a legal fenfe comprife only certain of her lineal defendants. Lafly, Where words are clearly repugnant in two laws, the latter law takes place of the elder; leges pofferiores priores contrarias abrogant, is a maxim of univerfal law, as well as of ous own co:ntitutions. And accordingly it was laid down by a law of the twelve
 ratum efo.
2. If words happen to be flill dubious, we may eftablifh their meaning from the comext; with which it may be of fingelar ufe to compare a word or a fentence, whenever they are ambiguous, equivocal, or intricate. Thus the proëme, or preamble, is often called in to help the conitruction of an aet of parliament. Of the fame nature and ufe is the comparifon of a law with other laws that are made by the fame legiflator, that have fome affinity with the fubject, or that exprefsly relate to the fame point. Thus, when the law of England declares murder to be felony without benefit of clergy, we muft refort to the fame law of England to learn what the benefit of clergy is: and, when the common laiv cenfures fimoniacal contracts, it affords great light to the fubject to confider what the canon law has adjudged to be fimony.
3. As to the fulject-mnatter, words are always to be underfood as having a regard thereto; for that is always fuppofed to be in the eye of the legiflator, and all his exprefions directed to that en: Thus, when a law of Edward III. forbids all ecclefialfical perfons to purchafe provifions at Rome, it might feem to prohibit the buying of grain and other viĉual ; but when we confider that the ftatute was made to reprefs the ufurpations of the papal fee, and that the nominations to benefices by the pope were called provifons, we fhall fee that the reffraint is intended to be laid upon fuch provifions only.
4. As to the effects and confequence, the rule is, That where words bear either none, or a very abfurd fignification, if literally underilood, we muit a little deviate from the rectived fenfe of them. Therefore the Bolognian law, mentioned by Puffendorf, which enacted "that whoever drew blood in the fireets fhould be punithed with the utmoft feverity," was held after long debate not to extend to the furgeon who opened the vein of a perfon who fell down in the freet with a fit.
5. But, laftly, The moft univerfal and effectual way of difcovering the true meaning of a law, when the words are dubious, is by confidering the reafon and fpirit of it, or the caufe which moved the legillator to enact it. For when this reafon ceafes, the law itfelf ought likerife to ceafe with it. An inflance of this is given in a calc put by Cicero, or whoever was the author of the rhetorical treatife infcribed to Herennius.

There was a law, That thofe who in a form forfook of haws the hip flou'd forfeit all property thercin, and the thip in zeneral. and lading thould belong entirely to thofe who faid in it. In a dangerous tempen, all the mariners forfook the fhip, cxcept only oue fick pafienger, who by reafon of his difeafe was unable to gct out and elcape. By chance the thip came fafe to port. The fick man kepr polfefion, and claimed the benefit of the law. Now here all the learned agree, that the fick man is not within the reafon of the law; for the reafon of making it was, to give encouragemnent to fuch as thould venture their lives to fave the velfel : but this is a merit which he could never pretend to, who neither itaid in the thip upon that account, nor contributed any thing to its prefervation.

From this method of interpreting laws by the rea-Equity. fon of them, arifes what we call equity : which is thus defined by Grotius, "the correction of that, wherein the law (by reafon of its univerfality) is deficient." For fince in laws all cafes cannot be forefeen or expreffed, it is neceffary, that, when the general decrees of the lasw come to be applied to particular cafes, there fhould be fomewhere a power velted of defining thofe circumflances, which (had they been forefeen) the legillator hinefelf would have expreffed. And thefe are the cares which, according to Grotius, lex non exane defnit, fed arlitrio boni viri permititit.

Equity thus depending, effentially, upon the particular circumftances of each individual cafe, there can be no effablifhed rules and fixed precepts of equity laid down, without deftroying its very effence, and reducing it to a pofitive law. And, on the other hand, the liberty of confidering all cafes in an equitable light muft not be indulged too far; len thereby we delloy all law, and leave the decifion of every queflion entirely in the breail of the judge. And law, without equity, though hard and difagreeable, is snuch more defirable for the public good, than equity without lawr; which would make every judge a legiflator, and introduce infinite confufion : as there would then be almoft as many different rules of astion laid down in our courts, as there are differences of capacity and fentiment in the human mind.

Having thus confidered the nature of laiws in gene- Plan of ${ }^{29}$ ral, we fhall proceed to give a view of the particular two followlaw of our own country ; I. Of England; 2. Of Scot- ing parts. land. The Englifh law, however, being too extenfive to admit of detail in a body, we can ouly here give fuch a iketch of it as may be futficient to fhow the connexion of its parts; but the principal of thefe parts themfelves are explained at large, under their proper names, in the general alphabet.-A contrary method is followed with regard to the law of Scotland. This being lefs extenfive, is given in a body, with all its parts not only in regular connetion, but fufficiently explained; thefe part, again, not being explained in the order of the alplaber, but marked with numerical references to their explanations in the fyffem.

PART II. TIIE LAW OF ENGLAND.

## INTRODUCTION.

THE municipal law of England, or the rule of cisil conduct prefcribed to the iuhabitants of that lingdom, may with fufficient propriety be divided into two kinds: the lex non foripta, the unn ritten or common law; and the lex.feripta, the witten or Itatute law.

The lex non feripta, or unwritten law, includes not only general cuftoms, or the common law properly fo called; but alfo the particular culloms of certain parts of the kingdom, and likewife thefe particular laws that are by cuftom obferved only in certain courts and jurifdictions.

In calling thefe parts of the law leges non feriptac, we would not be underllood as if all thofe laws were at prefent merely oral, or communicated from the former ages to the prefent folely by word of mouth. It is true indeed, that in the profound ignorance of letters which formerly overfpread the whole weftern world, all laws were entirely traditional ; for this plain reafon, that the nations among which they prevailed had but little idea of writing. Thus the Britifh as well as the Gallic druids committed all their laws as well as learning to memory; and it is faid of the primitive Saxons here, as well as their brethren on the continent, that loges fola memoria et $u \sqrt{\prime \prime}$ retinebant. But, with us at prefent $\mathrm{E}_{\text {, }}$ the monuments and evidences of our legal cuftoms are contained in the records of the feveral courts of juftice, in books of reports and judicial decifions, and in the treatifes of learned fages of the profeffion, preferved and handed down to us from the times of higheft antiquity. However, we therefore ftyle thefe parts of our law leges non feripte, becaufe their original inflitution and authority are not fet down in writing, as acts of parliament are; but they receive their binding power, and the force of laws, by long and immemorial ufage, and by their univerfal reception throughout the kingdom: in like manner as Aulus Gellius defines the jus non foriptum to be that which is tacito et illiterato homisum confenfu ot moribus expreflizn.

Our ancient lawyers, and particularly Fortefcue, infin with abundance of warmth, that thefe cuftoms are as old as the primitive Britons, and continued down through the feveral mutations of government and inhabitants, to the prefent time, unchanged and unadulterated. This may be the cafe as to fome. But in general, as Mr Selden in his notes obferves, this affertion muft be underftood with many grains of allowance; and ought only to fignify, as the truth feems to be, that there never was any formal exchange of one fyflem of laws for another: though doubtlefs, by the intcrmisture of adventitious nations, the Romans, the Fiess, the Saxons, the Danes, and the Normans, they mull have infenfibly introduced and incorporated many of their own cufloms with thofe that were before eftablifhed; thereby, in all probability, improving the texture and wifdom of the whole, by the accumulated wifdom of divers particular countries. Our laws, faith Lord Bacon, are mixed as our language ; and as our
language is fo much the richer, the laws are the more complete.

And indeed our antiquarians and firt hiftorians do all pofitively affure us, that our body of laws is of this compounded naturc. For they tell us, that in the time of Alfred the local cuftoms of the fevcral provinces of the kingdom were grown fo various, that he found it expedient to compile his dome book, or liber judicialis, for the general ufe of the whole kingdom. This book is faid to have been extant fo $l_{\text {ate }}$ as the reign of Edward IV. but is now unfortunately loft. It contained, we may probably fuppofe, the principal maxims of the common law, the penalties for mifdemeanors, and the forms of judicial proceedings. Thus much may at leaft be collected from that injunction to obferve it, which we find in the laws of King Edward the Elder, the fon of Alfred. Omnibus qui reipublicere prcefunt etiam atque ctiam mando, ut omnibus aquos fe prabeant judices perinde ac in judiciali libro foriptum habetur: nec quiquam formident quin jus commsunc audacter liberìque dicant.

But the irruption and eftablifiment of the Danes in England, which followed foon after, introduced new cuftoms, and caufed this code of Alfred in many provinces to fall into difufe, or at leaft to be mised and debafed with other laws of a coarfer alloy. So that, nbout the beginning of the 1 ith century these were thrce principal fyftems of laws prevailing in different diftrists. 1. The Mercen Lage, or Mercian laws, which were obferved in many of the inland counties, and thofe bordering on the principality of Wales, the retreat of the ancient Britons; and therefore very probably intermixed with the Britifh or Druidical cufloms. 2. The $W_{f} f$ Saxon Lage, or laws of the Weft Saxons, which obtained in the counties to the fouth and weft of the illand, from Kent to Devonftire. Thefe were probably much the fame with the laws of Alfred above mentioned, being the municipal law of the far mof confiderable part of his dominions, and particularly including Berkmire, the feat of his peculiar refidence. 3. The Dane Lage, or Danihh law, the very name of which fpeaks its original and compofition. This was principally maintained in the reft of the mid. land counties, and alfo on the eafern coaft, the part mof expofed to the vifits of that piratical people. As for the very northern provinces, they were at that time under a difingt government.

Out of thefe three laws, Roger Hoveden and Ranulphus Ceftrenfis inform us, King Edward the Confeffor extracted one uniform law, or digent of laws, to be obferved throughout the whole kingdom ; though Hoveden and the author of an old manufcript chronicle aflure us likewife, that this work was projected and begun by his grandfather King Edgar. And indeed a general digeft of the fame nature has been conftantly found expedient, and therefore put in prachice by other great nations, which were formed from an affemblage of little provinces, governed by peculiar cufloms. As in Portugal, under King Edward, about the beginning of the I f th century. In Spain, under Alonzo X. who
about the year $1=50$ execute:l the plan ot his father St Ferdinan:I, and collected all the provincial cuftoms into one uniform law, in the celebrated code entit!ed Las Parsidas. And in Sweden, about the fame era, a. univerfal body of common law was compiled out of the particular cultoms eftablifhed by the laghman of cvery province, and entitled the Land's Lrgm, being analogous to the common law of England.

Both thefe undertakings, of King Edgar and Edward the Confeffor, feem to have been no more than a new cctition, or frefh promulgation, of Alfred's code or dume book, with fuch additions and improvements as the experience of a century and a half had fuggefted. For Alired is generally dlyled by the fame hiltorians the legun Angliconarum conditor, as Edward the Confefior is the refliutor. Thefe, however, are the laws which our hiftories fo often mention under the name of the laws of Eduard the Confelfor; which our anceftors Atruggled fo hardly to maintain, under the frit princes of the Norman line; and which fub?equent princes fo frequently promifed to keep and to reltore, as the moft popular aet they could do, when prefled by foreign emergencies or comeltic difcontents. Thefe are the laws, that fo vigoroufly withitood the repeated attacks of the civil law; which eftablifted in the 12 th century a new Ronan empire over the mof of the ftates on the continent: ftates that have loft, and perhaps upon that account, their political liberties; while the free conftitution of England, perhaps upon the fame account, has been rather improved than debafed. Thefe, in hort, are the laws which gave rife and origin to that collection of maxims and cuftoms which is now known by the name of the common lave: A name either given to it, in contradiftinction to other laws, as the flatute law, the civil law, the law merchant, and the like; or, more probably, as a law common to a!l the sealm, the jus commune or folcright, mentioned by King Edward the Elder, after the abolition of the feveral provincial cuftoms, and particular laws beiore mentioned.

But though this is the moft likely foundation of this collection of maxims and chfoms; yet the maxims and cuftoms fo collected, are of higher antiquity than memory or hiftory can reach: nothing being more difficult than to afcertain the precife begirning and frif firins of an ancient and long eflablillied cuftom. Whence it is, that in our law the goodne?s of a cuitom depends upon its having been ufed time out of mind; or, in the folemnity of our legal phrafe, time whereof the memory of man runneth not to the contrary. This it is that gives it its weight and authority; and of this nature are the mavims and cultoms which compofe the common law, or lex nin foripla, of this kingdom.

This unwritten, or common law, is properly diftinguilhable into three kiads: t. General cuttoms; "hich are the univerfal rule of the rhole kingdom, and form the common law in its ftrifter and more ufual fignification. 2. l'articular cutloms; which for the molt part affect only the inhabitants of particnlar diftricts. 3. Certain particular laws; which by cuttom branchare adopted and ufed by fome particular courts, of he un- pretiy general and extenfive jurifdiction.
I. As to general cuftoms, or the common law properly fo cailed; this is that law, by which proceedings and determinations in the hing's ordinary courts of juf-
tice are guided and directed. This, for the mon part, fettles the courfe in which lands defeend by inheritance; the manner and form of acquiring and traasferring property ; the folemnities and obligation of coniracts; the rules of expounding wills, deeds, and acts of parliament; the refpective remedies of civil injuries ; the feveral lpecies of temporal offences, with the manner and degree of punifhment, and an infinite number of minuter particulars, which diffufe themlelve as extenively as the ordinary ditribution of common juftice requires. Thus, for example, that there thail be four fuperior courts of record, the chancery, the king's bench, the common pleas, and the exchequer; - thit the eldelt fon alone is heir to his anceltor;-that property may be acquired and transferred by writing;-that a deed is of no validity unlefs fealed and delivered; that wills thall be conftrued more favourably, and deeds more flrict-ly;-that money lent upon bond is recoverable by action of debt;-that breaking the public peace is an offence, and punihable by fine and imprifonment :-all thefe are doctrimes that are not fet down in any written ftatute or ordinance; but depend merely upor immemorial ulage, that is, upon common law, for their fupport.

Some have divided the common law into two principal grounds or foundations: 1. Eitablithed cuitoms; fuch as that, where there are three brothers, the eldelt brother fhall be heir to the fecond, in exclulion of the youngelt; and, 2. Ethablitied rules and maxims; as, "that the ling can do no wrong, that no man fhall " be bound to accule himfelf," and the like. But thefe feem to be cne and the fanme thing. Fur the authority of the fe maxims relts entirely upon general reception and ufage; and the only method of proving that this or that maxim is a rule of the common law, is by flowing that it hath been always the cuttom to obferve it.

But here a very natural, and very matenial, queftion arifes: How are thefe cuftoms or maxims to be kno in, and by whom is their validity to be deterained? The anfwer is, Py the judges in the feveral courts of juftice. They are the depofitory of the la:vs; the living oracles who muit decide in all cales of dou't, and who are bound by an oath to decide according to the la: of the lant. Their knowledge of that law is derived from experience and thudy; from the viginit anmorum lucubrationes, which Fortefcue mentions; and from beiag long perfonally accuflomed to the judicial deciliuns of their predeceffors. And indeed the judicial deci:ions are the principal and mof authoritative evidence, that can be given, of the exiftence of fuch a cuitom as hall form a part of the common law. The judgement itlelf, and all the proceedings previous thereto, are carefully regittered and preferved under the name of recj-a's, in public repofitorics fet apart for that particular purpole; and to them frequent recourfe is had, when any critical queftion arifes, in the determination of which for mer precedents may give light or ablitame: dial therefore, even fo carly as the Compuett, wo fond the pratcritorum memaria evontorums reckoned up as one of the chief qualifications of thofe who were beld to be legitus patrive optime infithti. For it is an cllablithed rule, 'To abide by former precedents, where the lame points come again in litigation, as well to keep the fcale of juftice even and fteady, and not liabie to waser

Lue of with every new judge's opinturn as alio becaufe the Englind. law in that cafe being folemnly deciared and determin-
ed, what before was uncertain, and periaps indiferent, is nory become a permanent rule, which is not in t?e brest? of any fubfequent judge to alter or rary from aconding to his prisate fentiments: he being fworn to derermine, not according to his own private judgement, but according to the known laws and cultoms of the land; not delegated to pronounce a new law, but to maintain and expound the ol? one. Yet this rule admits of exception, where the former determination is moft cridently contrary to reafno mach more if-it be contrary to the divine law. But even in fuch cafes the fubfequent judges co not pretend to make a new Jaw, but to vindicate the old one from mifreprefentation. For if it be found that the former decifion is manifefly abfurd or wijult, it is declared, not that fuch a ientence was bad law, but that it was not law; that is, that it is not the eftablibed cuffom of the realm, as has been erroneoully determined. And hence it is that our lawsers are with jullice fo conious in their enicmiums on the reafon of the common las ; that they tell us, that the law is the perfecition of reafon, that it always intends to conform thereto, and that what is not reafon is not law. Not that the particular reafon of every rule in the law, can at this difance of time be alrays precifely afigned; but it is futhicient that there be nothing in the rule flatly contradictory to rea!on, and then the law will prefume it to be well founded. And it hath been an ancient obfersation in the la:rs of England, that whenever a ftanding rule of lan, of which the reafon perhaps could not he rememleered or difcerned, hath been wantonly broke in upon os latutes or new refoluticns, the wifdom of the rulc hath in the end appeared from the inconveniences that have followed the innovation.

The doctrine of the law then is this: That precedents and rules mull be followed, unlefs flaty abfurd or unjuft ; for though their rcafon be not obvious at frot view: set we ous fuch a deference to former times $\therefore s$ not to funp fe they acted wholly without confideration. To illultate this doctrine by exemules. It has Leen determined, time out of mind, that a brother of the half Hood fhall never fucceed as heir to the eftate of his half brother, but it thall rather efcheat to the king, or other fupericr lord. Now this is a pofitive law, fixed and eftablifhed by cuftorn : which cuftom is prosed by judicial decifions; and therefore can never be departed from by any modern judge without a breach of his oath and the law. For herein there is nothing repugnant to natural iufice; though the artificial reafon of it, drawn from the feodal law, may not be quite obvious to every body. And therefore on account of a fuppofed hardihip upon the half brother, a modern judge might wift it had been otherwile fettled, yet it is not in his power to alter it. Kut if
any court were now to determise, that an elder brother of tise half bl whethe enter apon and feize any lands that wore purchafeil $y$ his younger brother, no fublectrent judges would foruple to declare that fuch prior determination was unjuit, was unceafonable, and therefore was not luw. So that the law, and the opinion of the juige, are not always convertible terms, or one and the fame thing; fince it fometimes may happen that the judge may mil?ake the law. Upon the whole, howerer, we may take it as a general rule, "That the decilions of courts of julice are the evidence of what is common lou," in the fame manaer as in the civil las, what the empero lad once determined was to ferse for a guide for the future.

The dections therefore of courts are held in the highe!t regard, and are not only preferved as authentic records in the treafuries of the feveral courts, but are handed out to public siew in the numerous volumes of reports which furnih the lawyers libzary. Thefe reports are hitosics of the feveral cafes, with a Rort fimmary of the proceedings, which are preferved at large in the record; the arguments on both fides, and the realons the court gave for its judgement: taken down in thort notes by perfons prefent at the determination. And thefe ferve as indexes to, and allo to explain, the records; which always, in matters of confequence and nicety, the judges direct to be fearched. The reports are extant in a regular feries from the reign of King Edward II. inclufie ; and from his time to that of Henry VIIH. were taken by the prothonotaries, or chief foribes of the court, at the expence of the crown, and publitied anmally, whence they are known under the denomination of the year tooks. And it is much to be wilhed that this benehoial cultom had, under proper regulations, been continued to this day; for though King James I. at the infance of Lord Bacon. appointed two reporiers, with a handfome Hipend, for this purpofe; yet that wife inftitution was foon neglected, and from the reign of Henty VIII. to the frefent time this tafis lias been executed by many private and contemporary hands; who fometimes through hatte and inaccuracy, fometimes through mif. take and want of dilll, have publifhed very crude and imperfect (perhaps contradictory) accounts of one and the fame determination. Some of the moft valuable of the ancient reports are thofe pubiifhed by Lord Chief Juftice Coke; a man of infnite learning in his profeffion, though not a little infected with the pedantry and quaintnefs of the times he lived in, which appear ftrongly in all his works. However, his writings are fo highly efteemed, that they are generally cited without the author's name (A).

Befides thefe reporters, there are alfo other authors, to whom great vencration and refpect are paid by the fudents of the common law. Such are Glanvil and Bracton, Briton, and Fleta, Littleton and Fitzherbert,
(A) His reports, for inftance, are ftyled, xat' $\varepsilon_{\text {goorr, " the reports;" and in quoting them we ufually fay, }}$ 1 or 2 Rep. not 1 or 2 Coke's Rep. as in citing other authors. The reports of Judge Croke are alfo cited in a peculiar manner, by the name of thofe princes in whofe reigns the cafes reported in his three volumes were determined; riz. Queen Elizabeth, King James, King Charles I.; as well as by the number of each volume. Forfometimes we cell them 1, 2, ard 3 Cro.; but more commonly Cro. Eliz. Cro, Jac, and Cro. Car.

## I.r II.

with fome others of ancient date, whofe treatifes are cited as authority; and are evidence that cales have furmerly happened in which fuch and fuch points were determined, which are now become fettled and firit principles. One of the laft of thefe methodical writers in point of time, whofe works are of any intrinfic authority in the courts of juffice, and do not entirely depend on the ftrength of their quotations from oider authors ${ }_{2}$ is the fame learned judge we have juft mentioned, Sir Edward Coke; who hath writen four volumes of Intilitutes, as he is pleafed to call them, though they have little of the inftitutional method to warrant fuch a title. The firft volume is a very extenfive comment upon a little excellent treatife of tenures, compiled by Judge Littleton in the reign of Edward IV. This comment is a rich mine of valuable common lare learning, collected and heaped together from the ancient reports and year books, but greatly defective in method. (B). The fecond volume is a comment upon many old acts of parliament, without any hematical order; the third, a more methodical treatife of the pleas of the crown; and the fourth, an account of the feveral fpecies of courts (c).

And thus much for the firft ground and chief cornerftone of the laws of England ; which is generally immemorial cuftom, or common law, from time to time declared in the decifions of the courts of juftice; which decifions are preferved among the public records, explained in the reports, and digefted for general ufe in the authoritative writings of the venerable fages of the law.

The Roman law, as practifed in the times of its liberty, paid alfo a great regard to cuftom; but not fo much as our law : it only then adopting it when the witten law was deficient; though the reafons alledged in the Digelt will fully jultify our practice in making it of equal authority with, when it is not contradicted by, the written law. "For fince (iays Julianus) the written law biads us for no other reafon but becaule it is approved by the judgement of the people, therefore thofe laws which the people have approved without writing ought alfo to bind every body. For where is the difference, whether the people declare their affent to a law by fuffrage, or by a uniform courfe of acting accordingly ?" Thus did they reaton while Rome had fome remains of her freedom; but, when, the imperial tyranny came to be fully eftablifhed, the civil laws fpeak a very different language. Quod principi placuil legis havet vigorem, cum populus ei et in eum omne fuum imperium et poteflatem conferat, fays Ulpian. Imperator folus et conditor et interpres legis exifimatur, fays the code. And again, Sacrilegii infar ef reforipto principis obviari. And indeed it is one of the characteriftic marks of Britilh liberty, that the common lay depends upon cuftom: which carries this internal evidence of freedom along with it, that it probably was inroduced by the voluntary confent of the people.

Vol. XI. Part II.
II. The fecond branci of the anmitten laws of England are particular cultoms, or laws which antet only the inhabitants of particular diltricts.

Thefe particular cufloms, or lome of them, are secuind without doubt the remains of that multitude of lucalbranch of cuftoms before mentioned, out of which the common the unwritlaw, as it now ilands, was collected at firll by King ton law: Alfred, and afterwards by King Edgar and Edward cuacoas. the Confeffor: each diftrict mutually facrificing fome of its own fpecial ufages, in order that the whole kingdom might enjoy the benefit of one uniform and univerfal fyftem of laws. But, for reafons that have been now long furgotten, particular counties, cities, towns, wanors, and lordihips, were very early indulged with the privilege of abiding by their own cultoms, in contradittinction to the reft of the nation at large : which privilege is confirmed to them by feveral acts of parliament.

Such is the cuftom of gavelkind in Kent and fome other parts of the kingdom (though perhaps it was alfo general till the Norman conqueft); which ordains among other things, that not the eldeft fon only of the father fhall fucceed to his inheritance, but all the fons alike; and that, though the anceftor be attainted and hanged, yct the heir fhall fucceed to his effate, without any efcheat to the lord.-Such is the culton that prevails in divers ancient boroughs, and therefore called borough Englifh, that the youngeft fon fhall inherit the eflate, in preference to all his elder brothers. Such is the cuftom in other boroughs, that a widow fhall be entitled, for her dower, to all her hurband's lands; whereas at the common law fhe fuall be endowed of one-third part only.-Such alfo are the feecial and particular cuftums of manors, of which every one has more or lefs, and which bind all the copyhold tenants that hold of the faid manors.-Such lificwife is the cultom of holding divers inferior courts, with power of trying caufes, in cities and trading towns; the right of holding which, when no royal grant can be fhown, depends entirely upon immemorial and eftablished ufage.-Such, laftly, are many particular cuftoms within the city of London, with regard to trade, apprentices, widows, orphans, and a variety of other matters. All thefe are contrary to the general law of the land, and are good only by fpecial ufage; though the cuftoms of London are alfo confirmed by act of parliament.

To this head may mof properly be referred a particu'. r fyitem of cuftoms ufed only among one fet of the king's fuhjects, called the cuflom of merchants, or lex mercatoria: which, however different from the general rules of the common law, is yet ingrafted into it, and made a part of it; being allowed, for the benent of trade, to be of the utmoft ralidity in all commercial tranfactions; for it is a maxim of law, that cuildict is fua arte credendum efl.

The rules relating to particular cuftoms regard ei4 F ther
ther the proof, of their exiftence; their legality when proved; or their ufual method of allowance. And firlt we will confider the rules of proof.

As to gavelkind and borongh Englifh, the law takes particular notice of them; and there is no occafion to prove, that fuch culloms actually exift, but only that the lands in queftion are fubjeft thereto. All other private cuftoms muft be particularly pleaded; and as well the exiftence of fuch cuftoms muil be fhown, as that the thing in difpute is within the cultoms alleged. The trial in both cafes (both to fhow the exillence of the cuftom, as, "That in the manor of Dale lands thall defcend only to the heirs male, and never to the heirs female;" and alfo to fhow "that the lands in queftion are within that manor") is by a jury of twelve men, and not by the judges; except the fame particular cultom has been before tried, determined, and recorded, in the fame court.

The cuftoms of London difer from all others in point of trial: for if the exiltence of the cuftom be brought in quettion, it thall not be tried by a jury, but by a certificate from the lord mayor and aldermen by the mouth of their recorder; unlefs it be fuch a cuitom as the corporation is itfeif interefted in , as a right of taking toll, \&c. for then the law permits them not to certify on their own behalf.

When a cuftom is aftually proved to exift, the next inquiry $i_{s}$ into the legality of it ; for if it is not a good cuftom, it ought to be no longer ufed. Malus ufus abolendus $\epsilon f$, is an eltablihed maxim of the law. To make a particular cuftom good, the following are neceffary requifites:-

1. That it have been ufed fo long, that the memory of man rumeth not to the contrary. So that if any one can flow the beginning of it, it is no good cuitom. For which realon, no cultom can prevail againft an exprefs act of parliament; lince the itatute itielf is a proos of a time when fuch a cultom did not exif.
2. It mut have been continued. Any interruption would caufe a temporary ceafing: the revival gises it a new beginning, which will be within time of memory, and thereupon the cultom will be void. But this muft be underitood with regard to an interruption of the right: for an interruption of the poffeffion only for 10 or 20 years, will not deftroy the cultom. As if the inhabitants of a parilh have a cultomary right of watering their cattle at a certain pool, the cuftom is not deftroyed, though they do not ufe it for 10 years; it only becomes more difficult to prove: but if the right be anyhow difcontinued for a day, the cuftom is quite at an end.
3. It muft have been peaceable, and acquieiced in; not fubject to contention and difpute. For as cultoms owe their original to common confent, their being immemorially difputed, cither at law or otherwife, is a proof that fuch confent was wanting.
4. Cultoms mult be rafonable; or rather, taken neratively, they muft not be unreafonable. Which is not alwayc, as Sir Edward Coke Cays, to be undernood of every unlearned man's reafori; but of artificial and legal reafon, warranted by authority of law. Upon which account a cultom may be good, though the particular reafon of it cannot be affigned; for it fufficeth, if no good legal reafon can be affgned againf it.

Thus a cuftom in a parifh, that no man flall put his beafts into the common till the third of OEtocr, would Law.
Englar be good; and yet it would be hard to fhow the reafon why that day in particular is fixed upon rather than the day before or after. But a cuftom, that no cattle thall be put in till the lord of the manor bas firf put in his, is unreafonable, and therefore bad: for peradventure the lord will never put in his; and then the tenants will lofe all their profits.
5. Cuftoms ought to be ceriain. A cuftom, that lands fhall defcend to the moft worthy of the owner's blood, is void; for horv fhall this worth be determined? but a cuflom to defcend to the next male of the blood, exclufive of females, is certain, and therefore good. A cultom to pay twopence an acre in lieu of tithes, is good; but to pay fometimes twopence and fometimes threepence, as the occupier of the land pleafes, is bad for its uncertainty. Yet a cuftom, to pay a year's improved valuc for a fine on a copyhold elfate, is good; though the value $i^{\circ}$ a thing uncertain: for the value may at any time be afcertained; and the maxim of law is, Id cerfum of, quod cortum reddi potef.
6. Cuitoms, though effablifhed by confent, mult be (when eftabliftied) compulfory: and not lefi to the option of every man, whether he will ufe them or no. Therefore a cuflom, that all the inhabitants tha! be rated toward the maintenance of a bridge, will be good; but a cuftom, that every man is to contribute thereto at his oxn pleafure, is idle and abfurd, and indeed no cultom at all.
7. Laftly, Cuftoms mult be conffient with each other. One cuftom camot be fet up in oppolition to another. For if both are really cultoms, then both are of equal antiquity, and both eftablihed by mutual confent: which to fay of contradictory cuftoms, is abfurd. Therefore, if one man preferibes that by cuftom he has a right to have windors looking into another's garden ; the other cannot claim a right by cuftom to ftop up or obltruct thole windows: for thele two contradictory cultoms cannot both be good, nor both fand together. He ought rather to deny the exiftence of the former cultom.

Nest, as to the allowance of fpecial cultoms. Cuftoms, in derogation of the common law, mult be conit rued firictly. Thus, by the cuffom of gavellind, an infant of 15 years may by one fpecies of conveyance (called a dced of feoffinent) convey away his lands in fee fimple, or for ever. Yet this cuftom does not empower hin to ufe any other conveyance, or esen to leafe them. for feven years: for the cuftom muft be ftrictly purfued. And, moreover, all Special cufloms muft fubmit to the king's prerogative. 'Therefore, if the king purchafes lands of the nature of gavelkind, where all the fons inherit equally; yet, upon the king's demife, his eldeft fon fhall fucceed to thofe lands alone.' And thus much for the fecond part of the leges non foriptice, or thofe particular cuftoms which affect particular perfons or diftricts only.
III. The third branch of them are thofe peculiar Third laws which by cuftom are adopted and ufed only in branchoo certain peculiar courts and jurifdictions. And by thefe the unwr are underftood the civil and canon laws.

It may feem a little improper, at firf view, to rank thefe laws under the head of leges non foripla, or unuritten laws, fecing they are let forth by authority in their

Iaw of their pandects, their codes, and their infliutions; their councils, decrees, and decretals; and enforced by an immenfe number of expofitions, decilions, and treatifes of the learned in both branches of the law. But this is done after the example of Sir Mathew Haie, becaule it is moft plain, that it is not on account of their being writen la:es, that either the canon law, or the civil law, have any obl!gation wilhin this kingdom: neither do their force and efficacy depend upon their own intrinecauthority; which is the caie of our writ. ten laws or achs of parlizment. They bind not the fubjeets of England, becaule their materials were collected from popes or eniperors, were digefled by Juf. tinian, or declared to be authentic by Gregory. Thefe comfderations give them no authority here ; for the le gillature of England doth no:, nor ever did, recognize any foreign powcr, as fuperior or equa! to it in this kingdom: or as having the right to give law to any the meaneft of its fubjects. But all the ftrengtl that either the papal or : mperial laws have obtained in this realm (or indeed in any other kingdom in Europe) is only becaule they lave been admitted and received by immemorial afage and cuftom in fome particular cafes, and fome particular courts: end then they form a branch of the loges non fripta, or cuftomary law: or elie, becaule they are in fome other cafes introduced by confent of parliament, and then they owe their validity to the leges feriphe, or flatute law. This is ex. prefily deciared in thofe remarkable words of the fla. cute as Hen. VIII, c, 2i, addreffed to the king's royal majelty,-" This your grace's realn, recognizing no Ahperior uncer God bus only your grace, hath been and in free from lubjection to any man's laws, but only iu fuch as have been devifed, made, and ordained within this sealm for the weaith of the fame; or to fuch wher as, by fufferance of your grace and your proge. nitors, the people of this your realm have taken at their frec liberty, by their own confent, to be ufed among them; and have bound themiflyes by long ufe and cuitom to the obfervance of the fame: not as to the nbfervance of the laws of any foreign prince, potentate, or prelate; but as to the cultomed and ancient laws of this realm, originally ettablifhed as laws of the fams, by the faid fufferance, confents, and cuftom: and none otherwife."

1. By the civil law, abfoletely taken, is generally underltood the cisil or muntipal lase of the Roman em. pire, as comprifed in the mintures, the Code, and the Digeft of the cmperor Jultinian, and the novel contitutions of himete and fome of his fuecelfors; of which it may not be amiff to give a thort snd general account.

The Roman law (founded firt upon the regal cano nimutionz of their ancient kinge, next upon the 12 tables of the deemviri, then upon the laws or ftweres enated by the fenate or people, the ediets of the prstar, and the irfosnfop prudentium or opinions of leatned law. yers, end laftiy upos the imperial decrees we confitutions of fuccefive emperors) liad grown to fo great a bulk, or, ais livy expretles it, ta\% immenfus aliaroun fuper alias aservatarum legune commulus, that they wers computed to be thany camets !nad by an author who preceded luninien, 'this was in part temeclie! by the collcetions of three private lawyers, Garguriua, Hermogencs; and Papirits; and ther by the emacror Theo-
dofius the younger, by whofe orders a code was com. piled, A. D. $43^{8}$, being a methodical colleation of all the imperial conflitutions then in force: which Theodofian code was the only book of civil law reccived as authentic in the weftern part of Europe, till many centuries after; and to this it is probable that the Franks and Goths might frequently pay fons regard, in framing legal conflitutions for their newly erected kingdoms. For Jufinian commanded only ia the eaftern remains of the empire; and it was under his aufpices, that the prefent body of civil law was compiled and finifined by Trebonian and other lawyers, about the year 533.

This conflits of, 3. The Imfituess; which contain the elements of firt principles of the Ronan law, in four books. 2. The Digents or Pande ह̂s, in p b books; containing the opinions and writings of emineat lav:yers, digefied in a fyftematical method. 3. A rew code, or collection of imperial couftitutions; the lapfe of a whole century wing rendered the former code of Theodofius imperfect. 4. The Novels, or new conditutions, poflerior in time to the other books, and anounting to a fupplement to the code: containing new decrees of fucceltive emperors, as new queftions happened to arife. Thefe form the body of Roman law, or corpus juris civilis, as pablifined about the time of lutinian: which, however, fell foon into neglect and oblivion, till about the year II 30 , when a copy of the Digefts was found at Amalf in Italy ; which accident. concurring with the pelicy of the Roman ecclefiafics, fuddenly gave new vogue and authority to the civil law, introduced it into feveral nationc, and occalioned that mighty inundation of voluminous comments, with which this fyitem of law, more than any other, is now loaded.
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z. The canon law is a body of Roman ecciefiafical law, relative to fuch matters as that church either has, or pretends to have, the proper jurididion over. This is compiled from the opinions of the ancient Latin fathers, the decrees of general councils, the decretal epiltles and bulls of the holy fee, All which lay in the fame diforder and confufion as the Roman civil law: till, about the year 115 1 , ons Gratian an Ita. lian monk, animated by the difcovery of Juftinian's Pandects, reduced the eeclefatical constitutions alfo into fome method, in three books; which he entitled Concordit difordantiun canonum, but which are generally known by the name of Dicretum Grationi. Thefe reached as low as the time of Pope Alexander III. The fubfeguent papal decrees, to the pontificate of Gircgory IX. were publifined in much the fame method under the aufpices of that pope, about the year 1230 , in five books; emitled Decresalia Gregorii noni, A fixth book was added by Boniface Vill. about the year 1298, which is called Sextus Decretalium. The Clenentine conftutions, or decrees of Clement $Y$. were in like manner authenticated in 1317 by his fueceifor John XXII; who alfo publithed 20 conflitutions of his own, called Entratapantes Joannis: all which in fome mealure anfiver to the novels of the civil lave. To thefe have been fince added rome decrees of latter popes, in five books, called Extravagantes Comimunes. And all thefe together, Gratian's decree, Gregory's decretals, the fixth decretal, the Clementine confitutions, :nd the Extravagants of John and his fucceffors,

Law i form the ensues juris cansmict, or boty of the Roman
Eulind.

## amme law.

Befides thefe pontifical coliestions, wh:ch during the times of popery were reccised as authertic in this illand, as well as in other parts of Clariftendon, there is alfo a hind of national canon low, comapofed of lesatine and provincial conlitutions, and adapted only to the exigencies of this church and kingdom. The legatine conflitutions isere ecclefiaflical laws, enacted in national fynods, held mader the cardinals Otho and Othobon, legates from Pope Gregory IX. and Pope Clement IV. in the reign of King Henry III. about the years 1220 and 1268 . The provincial conllitutions are principally the decrees of provincial fynods, held under divers archbihops of Canterbury, from Stephen Langton in the reign of Henry III. to Henry Chichele in the reign of Henry V.; and adopted alfo by the province of York in the reign of Henry VI. At the dawn of the Reformation, in the reign of King Henry VIII. it was enacled in parliament, that a review fhould be had of the canon law; and till fuch review hould be niade, all canoir, conflitutions, ordinances and fynodals provincial, being then already made, and not repugnant to the law of the land or the king's prerogative, fhould fill be ufed and executed. And, as no fuch review has yet beens perfected, upon this flatute now depends the authority of the canon law in England.

As for the canons enacted by the clergy under James I. in the year 1603, and never confirmed in parliament, it has been folemnly adjudged upon the principles of lav and the conflitution, that where they are not merely declaratory of the ancient canon law, but are introductory of new regulations, they do not bind the laity, whatever regard the clergy may think proper to pay them.

There are fuur fpecies of courts, in which the civil and canon laws are permitted under different refrictions to be ufed. 1. The courts of the archbiHiop and bihops, and their derivative officers; ufually called courts Chirifina, (curice Chrifianitatis), or the ecclefinfical courts. 2. The military courts. 3. The courts of admiralty. 4 . The courts of the two univerfities. In all, their reception in general, and the different degrees of that reception, are grounded entisely upon cullom; corroborated in the latter infance by act of parliament, ratifying thofe chartcrs which confirm the cultomary law of the univerfities. The more minute confideration of them will fall under their proper articles. It will fuffice at prefent to remark a few
particulars relative to them all, which may ferve to inculcate more itrongly the doctrine laid down concern. Englan ing them.

1. And firft, The courts of common law have the fuperintendency over thele courts; to keep them within their juriflictions; to determine wherein they exceed them; to reffrain and prohibit furh excefs; and (in cafe of contumacy) to punifh the officer who executes, and in fome cafes the judge who enforces, the fentence fo declared to be illegal.
2. The common laty has referved to itfelf the expofition of all fuch acts of parliament, as concern either the extent of thefe courts, or the matters depending before them. And therefore, if thefe courts either refufe to allow thele acts of parliament, or will expound them in any other fenfe than what the common law puts upon them, the king's courts at IVeltminfter will grant prohibitions to reffrain and controul them.
3. An appeal lics from all thefe courts to the king, in the laft refort; which proves that the jurifdiction exercifed in them is derived from the crown of England, and not from any fcreign potentate, or intrinfic authority of their own.-And, from thefe three flrong marks and enfigns of fuperiority, it appcars beyond a doubt, that the civil and canon laws, though admitted in lome cafes by cuflom in fome courts, are only lub. ordinate and leges fub graviori lege; and that thus actmitted, rettrained, altered, new-modelled, and amended, they are by no means with us a diffinet independent fpecies of laws, but are inferior branches of the cullomary or unwritten laws of England, properly called the king's ecclefiaftical, the king's military, the king's maritime, or the king's academical laws.

Let us next proceed to the leges foripte, the written The wri laws of the kingdom; which are ftatutes, acts, or ten law. edicts, made by the king's majelty, by and with the advice of the lords fpiritual and temporal and commons in parliament aflembled. The oldent of thefe now extant, and printed in our flatute books, is the famous magna charta, as confirmed in parliament 9 Hen. III. though doubtlefs there were many acts before that time, the records of which are now loft, and the determinations of them perhaps at prefent currently receired for the maxims of the old common law.

The manner of making thefe flatutes being explained under the articles Bill and Parliamext, we thall here only take notice of the different kinds of flatutes; and of fome general rules with regard to their confruction ( D ).

Firft, As to their feveral kinds. Statutes are either Kindso ${ }^{42}$
general itatutes
(D) The method of citing thefe acts of parliament is various. Many of the ancient fatutes are called after the name of the place where the parliment was held that made them; as the flatutes of Merton and Marleberge, of Wefminfter, Glocefter, and Winchefter. Others are denominated entirely from their fubject ; as the ftatutes of Wales and Ireland, the articuli cleri, and the prorogativa regis. Some are diftinguifhed by their initial words, a method of citing very ancient; being ufed by the Jews, in denominating the books of the Pentateuch; by the Chriflian church, in diftinguifning their hymns and divine offices; by the Romanits, in delcribing their papal bulls; and in the thort by the whole body of ancient civilians and canonitts, among whom this method of citation generally prevailed, not only with regard to chapters, but inferior fections alfo; in imitation of all which we flill call fome of the old flatutes by their initial words, as the flatute of - wia emplores, and that of Circum/pecte agatis. But the mon ufual method of citing them, efpecially firice the time of ${ }^{-}$ Edward 11. is by naming the year of the king's reign in which the fatute was made, together with the chafter or particular act, according to its numeral order; as, $9 \mathrm{Gco.1l}$ c. 4 . For all the acts of onc feflion
general or fpecial, public or private. $\alpha$ general or public act is an muirerfal rule that regards the whole community : and of this the courts of law are bound to take notice judicially and ex officis, without the flatute veing particularly pleaded, or formally fet forth, by the pariy who claims an adrantage under it. Special or private acts are rather excentions than rules, being thofe which only operate upon particular perlons and private concerns; luch as the Romans entitled fenatus decreta, in contraditinction to the fenatus confulta, which regarded the whole comminity; and of thefe the judges are not bound to take notice, unlefs they be to:n:erly fhown and pleaded. Thus, to fhow the difinction, the fatute is Eliz. c. 10. to prevent fpiritual perfons from making leafes for longcr terms than $2 I$ years or three lives, is a public act; it being a rule prefcribed to the whole body of firitual perfons in the nation: but an act to enable the bithop of Cheller to make a leafe to A. B. for 60 years, is an exception to this rule; it concerns only the parties and the bifloop's fucceffors, and is therefore a private act.

Siatutes ailo are either declaratory of the common law, or remedial of fome defects therein. Declaratory, where the old cultom of the kingdom is almolt fallen into difufe, or become dilputable; in which cafe the parliament has thought proper, in perpetuurn rei icfimomium, and for avoiding all doubts and dificulties, to declare what the common law is and crer hath been. Thus the ftatute of treafons, 25 Edw. III. cap. 2. doth not make any new fpecies of treafous: but only, for the benefit of the fubjeci, declares and enumerates thofe feveral kinds of oftence which before were treafon at the common law. Remedial fatutes are thofe which are made to fupply fuch defects, and abridge fuch fuperfluities, in the common law, as arile either from the general imperfection of all human laws, from change of time and circumitances, from the miftakes and unadvifed determinations of unlearned judges, or from any other caufe whatfoever. And this being done, either by enlarging the common law where it was too narrow and circumferibed, or by reftraining it where it was too las and luxuriant, hath occafioned another fubordinate diviion of remedial acts of parliament into enlarging and refraining flatutes. To inflance again in the cafe of treafon. Clipping the current coin of the kingdom was an offence not fulficiently guarded againft by the common law : therefore it was thought expedient by ftatute 5 Eliz. c. If, to make it high treafon, which it was not at the common law : fo that this was an erlarging ftatute. At common law, alfo, fpiritual corporations might leafe out their eftates for any term of years, till prevented by the ftatute ! 3 Eliz. before mentioned: this was therefore a reflraining fatute.

Secondly, The rules to be obferved with regard to the conftruction of ftatutes are principally thefe which follow.

1. There are three points to be confidered in the
confruction of all remedial tistutes; the uld law, ike mifchicf, and the remely; that is, how the common law flood at the making of the aft; what the mifchief was, for which the common law did not provide; and what remedy the parliament hath provided to care this milchief. Ind it is the bufinefs of the judges fo io conftue the act, as to fupprefs the mifchicf and ad. vance the remedy. I.ct us inflance arain in the fame reftraning ftatute of t 3 Eliz. c. 10. By the common law, eccleliaftical corporations might let as long leafes as they thought proper: the mifchief was, that they let long and unreaforable leafes, to the imporerilhment of their fucceffurs: the remedy applied by the Itatute was by making void all leates by ecclefiallical bodies for longer terms than three lives or 21 years. Now in the conllruction of this flatute it is held, that leafes, though for a longer term, if made by a bihop, are not void during the bilhop's continuance in his fee; or, if made by a dean and chapter, they are not void during the continuance of the dean; for the act was made for the benefit and protestion of the fucceffor. The mifchief is therefore fulficiently fupprefied by vacating them after the determination of the intereft ot the granters; but the leafes, during their continuance, being not within the mifchief, are not within the remedy.
2. A flatute, which treats of things or perfons of an inferior rank, cannot by any gencral words be extended to thofe of a fuperior. So a flatute, treating of "deans, prebendaries, parfons, vicars, aud other's having fpirilual promosion," is held not to extend to bithops, though they have fpiritual promotion; deans being the highelt perfons named, and bifhops being of a ftill higher order.
3. Penal flatutes muft be conftrued ftrietly. Thus the ftatute I Edw. VI. c. I2, baving enacted that thofe who are convicted of tealing horfes thould not have the benefit of clergy, the judges conceived that this did not extend to him who fhould feal but one horfe, and therefore procured a new act for that purpofe in the following year. And, to come nearer to our own times, by the ftatute 14 Geo. II. c. 6. tlealing theep or other cattle, was made felony "ithout benent of clergy. But thefe general words, " or other cattle," being lookcd upon as much too loofe to create a capital of fence, the act was held to extend to nothing but merc theep. And thercfore, in the next feffions, it was found neceflary to make another llatute, If Geo. II. c. 34 . extending the former to bulls, cows, oxen, \{leers, bullocks, heifers, calves, and lambe, by name.
4. Statutes againft frauds are to be liberally and beneficially expounded. This may feem a contradictionto the laft rule: mof ftatutes againf frauds being in their confequences penal. But this difference is here to be taken: where the ftatute acts upon the affender, and inflicts a penalty, as the pillory or a fine, it is then to be taken flrictly; but when the fatute aets upon the offence, by fetting afide the fraudulent tranfaction,

[^11]here it is to be confrued liberaily. Upon this footing the flatute of $1_{3}$ Eliz. c. 5. which voids all gifts of goods, \&̌c. made to defraud creditors and utiers, was he'd to exiend by the general words to a gift macie to defraud the queen of a forfeiture.
5. One part of a ftatute mult be fo confrued by arother, that the whole may (if potible) ftand: ut res mad is salcat quampereat. As if land be velted in the king and his heirs by ad of parlianent, faviry the right of $A$; and $A$ has at that time a leafe of it for three years; here A chall hold it for his term of three years, and afterwards it thall go to the king. For this ititerpretatiou furnithes matter for ever; claufe of the flatute to work and operate upon, Lut,
6. A faving, totally repugnant to the body of the ast, is void. If therefore an act of parliament vents land in the king and his heirs, faving the right of a! perfons whatfoever; or vells the land of $A$ in the hing, faving the right of $\mathrm{A}:$ in either of thefe cafes the taving is totally repugnant to the body of the flatute, and (if good) would render the liature of no effect or operation; and therefore the faving is voic, and the dand vefls abfolutely in the king.
7. Where the common las and a flatute differ, the common law gives place to the flacute; and an old Itatute gives place to a new one. And this upon the general principle laid down in the laft fection, that leges pafteriores priores contrarias abrogan:. But this is to be underflood only when the latter flatute is couched in negative terms, or by its matter neceffarily implies a negative. As if a former act fays, that a jaror upon fuch a trial fhall have twenty pounds a-year, and a new flatute comes and fays he fhall have twenty merks; here the latter flatute, though it does not exprefs, yet neceffarily implies, a negative, and virtually repeals the former. For if tiventy buerks be made qua-lificat:-n fufficient, the former Aatute which requires twenty pounds is at an end. But if both the acts be merely athrmative, and the fubltance fuch that both may fland together, here the latter does not repeal the former, but they thall both have a concurrent efficacy. If by a forme: law an offeace be indictable at the guarter fefioms, and a lateer law makes the fame offence indiclable at the allizes; here the juridiction of the fellions is not taken away, but both have a concurrent juridiction, and the offender may be proleruted at either: unlefs the new fatute folljgins exprefs negative words; as, that the offence flall be inditable at the afizes, and not elfewhere.
8. If a flatute, that repeals another, is itfelf repealed afterwards, the firlt fatule is hereby revived, without any formal words for that purpofe. So when the Itatutes of 26 and 35 Henry VIII, beelaring the king to be the fupreme head of the church, were rew pealed hy a fatute 1 and 2 Philip and Mary, and this later ilatute was afterwards repealed by an aft of : Eliz. where needed not any exprefo word of retival in Oueen Llizaberh's fature, but thefe ads of wing Hemry were impliedly and wirtually revived.
9. A'ts of pariament derogatery from the power of fublequent parliaments hind not. So the patute 18 Hen. Vil. C. 3. which directe, that no perion for alo filling a king we focto thall be attainted of wearon by act of parliament or otherwife, is held to be goud only as to common prokecutions for high trealon;
but will not reftain or clog any parliamentary at- Law tainder. Becaufe the legillator, being in truth the fuvereign power, is always of cqual, always of ablolute authority: it acknowledges no fuperior upon earth, which the prior legiflature munt have been if its oruinatices could bind the profent parliamen:。 And upon the fane principle Cicero, in his leteers to Atticus, treat, with a proper eontempt thefe rell raining claufes, which endeavour to tie up the hand of fucceediug le. gillatures. "When you repeal the law itfelf (fays he), you the farme time repeal the prohibitory claufe whici, guards againit fuch repeal."
10. Lafly, Ats of parliament that are imponible to be performed are of no validity: and if there arice out of them collaterally any abfurd confequences, ma. nifctly contradiçtory to common reafon, they are with segard to thole collateral coniequences void. We lay dovan the rule with thefe reftrictions; though we know it is generatly laid down more larkely, that ach, of parliament contraty to reafon are void. But if the parlia. ment will politively enact a thing to be done whicls is unceafonable, we know of no porser that can controul it: and the examples ufually alleged in hipport of this fenfe of the reie do none of them prove that where the main objeat of a ilatute is unreafonable, the judges are at liberty to reject it ; for that were to fet the jus dicial power above that of the legiflature, whicih would be fubverfive of ail government. But where fome collateral matter arifes out of the general words, and hap. pens to be unreafonable; there the judges are in icscency to conclude that this conlequence wars not fore fen by the parliament, and therefore they are at lio berty to expound the Rature by equity, and only quaced hoe difregard it. Thus if an act of parliament gives n man power to try all caules that arife within his manor of Dale; yet, if a caufe thould arife in which has hinfelf is party, the aft is confrued not to extend to that, beeaufe it is unreafonable that any man fhould determine his own quarrel. But, if we could conceive it pollible for the parlizanent to enact, that he fhould try as well his own caufes as thofe of atheris perfons, there is no court that has power to defeat the intent of the legillature, when conebed in fuch evident and exprefs words as leave no doubt whether it was the in. tent of the legiflature or not.

Thefe are the ieveral grounds of the daws of England: oyer and above which, equity is alfo frequently ca! !ed in to allity, to moderate, and to explain them. What equity is, and how impolible in its very clience to be reduced to flated sules, hath bsen fhown above. Ho may be fuificient, thecrefore, to add in thia place, that, befides the liberality of fentiment with which our common law judges interpret acts of parliament, and foch rule of the unsritten laiy as are not of a pofitive kind, there are alfo cours of equity eflablifted for the benefte of the futject, to detect latent frauds and conccalmente, which the proeefs of the courto of law is not adapted to teach: to enforce the exegution of furla maters of tral and contidence, ay are bindiug in cono cience, though not cognizable in a court of hav; to deliver from fuch dangers an are owing to misfortung or overfight; and to give a more fecific zelicef, und mose adapted to the cirectinflances of the cafe, than can always be ottenined by the generality of the rules of the poiltive or common haw. This is the bufnefs
of the courts of equity, which however are only converfant in matters of property. For the frcedom of our conflitution will not permit, that in criminal cafes a power thould be lodged in any judge to conftrue the law otherwife than according to the letter. This cathtion, while it admirably protects the public liberty, can never bear hard upon individuals. A man cannot fuffer more punillment than the law afigens; but he may fuffer lefs. The laws cannot be Atrained by pastiality to intict a penalty beyond what the letter will wasrant; bu*, in cales where the letter induces any apparent hardflaip, the crown has the power to pardon.

The objects of the laws of England are, 1. The rights of perfons. 2. The rights of things. 3. Private wrongs. 4 . Public wrongs.

## Chap. I. Of the Rights of Persons.

Srect. I. Of the Alfoluie Rights of Individuals.
(1.) The objects of the Laws of England are, 1. Rights, a. IVrongs.
(2:) Rights are the rights of perfons, or the rights of things.
(3.) The rights of perfons are fuch as concern, and are annexed to, the perfons of men: and, when the perfon to whom they are due is regarded, they are called (imply) rights; but, when we confider the perfon from whom they are due, they are then denominated, duties.
(4.) Perfons are either matural, that is, fuch as they are formed by nature; or artificial, that is, created by human policy, as bodies politic or corporations.
(j.) The rights of naturat perfons are, 1. Abfolutc, or fuch as belong to individuals. 2. Relative, or fuch as regard members of fociety.
(6.) The absolute righes of individuals regarded by the municipal laws (which pay no attention to duties, of the abfolute kind), compofe what is called political or civil tiberty.
(7.) Political or civil liberty is the natural liberty of mankind, fo far rellrained by human laws as is neeeffary for the good of fociety.
(8.) The abfolute rights or civil liberties of Englifhmen, as frequently declared in parliament, are principally three : the right of perfonal fecurity, of perfonal liberty, and of priziate property.
(9.) The right of perfonal fecurity confints in the legal erjoyment of life, limb, body, health, and reputation.
(10.) The right of perfonal liberty confilts in the free porver of loco-motion, without illegal reftraint or baniflumert.
(11.) The right of private property confifts in every man's free ufe and difpofal of his own lawful acquifitions, without injury or illegal diminution.
(12.) Belides thefe three primary rights, there are others which are focondary and fubordinate; viz. (to preferve the former from unlawful attacks). 1. The conflitution and power of parliaments; 2. The limitation of the king's prerogative; -and (to vindicate them when actually violated); 3 . The regular adminiftration of public juftice; 4. The right of petitioning for re-
drefs of grievances; 5. The right of having and ufing arms for felf-defence.

Law of
England $\underbrace{\text { Epitomifed. }}$

Sect. II. Of the Parliament.

(1.) The relations of perfons are, s. Public; 2. Prio vate. The public relations are thofe of magigrates and people. Magiflrates are fupcrior or fubordinate. And of fupreme magiftrates, in England, the parliament is the fupreme lesiflative, the king the fupreme exccutive.
(z.) Parliaments, in fome fhape, are of as high antifuity as the Saxon government in this illand; and have fubfifted, in their prefent form, at leaft five hundred years.
(3.) The parliament is affenbled by the king's writs, and its fitting muft not be intermitted above three years.
(4.) Its conftituent parts are the king's majefty, the lords fpiritual and temporal, and the commons reprefented by their members: each of which parts has a negative, or neceffary, voice in making laws.
(5.) With regard to the general lav of parliament; its power is abfolute: cach houle is the julge of its own privileges; and all the members of either houfe are entitled to the privilege of fpeech, of perfon, of their domeftics, and of their lands and goods.
(6.) The peculiar privileges of the lords (befides their judicial capacity), are, to humt in the king's foreffs; to be attended by the fages of the law; to make proxies; to enter protcfts; and to regulate the election of the 16 peers of North Britain.
(7.) The peculiar privileges of the commons are, to frame taxes for the fubject ; and to determine the merits of their own elections, with regard to the qualifications of the electors and elected, and the proceedings at elections themfelves.
(8.) Bills are ufinally twice read in each houfe, committed, engrofled, and then read a third time; and when they have obtained the concurrence of both houles, and received the royal affent, they become atts of parliament.
(9.) The houles may adjourn themfelves; but the king only can prorogue the parliament.
(10.) Parliaments are diffolved, 1. At the King's will. 2. By the demife of the crown, that is, within fix months after. 3. By length of time, or having fat for the fpace of feven years.

## Sect. III. Of the King and his Title.

(1.) The fupreme executive power of this kingdom is lodged in a fingle perfon; the king or queen.
(2.) This royal perfon may be confidered with regard to, 1. His title. 2. His royal family. 3. His councils. 4. His duties. 5. His prerogative. 6. His revenue.
(3.) With regard to his title; the crown of England, by the pofitive confitution of the kingdom, hath ever been defeenditle, and fo continucs.
(4.) The crown is defcendible in a courfe peculiar to itfelf.
(5.) This courfe of defcent is fubject to limitation by parliament.
(6.) Notwithfanding fuch limitations, the crown retains

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retains its defcendible quality, and becomes hereditary in the prince to whom it is limited.
(7.) King Egbert, King Canute, and King William I. have been fuccefifively conifituted the common flocks, or ancettors, of this detecnt.
(8.) At the Revolution the convention of effates, or reprefentative body of the nation, declared, that the mifconduct of King James I1. anounted to an abdication of the government, and that the throne was thereby zacant.
(9.) In confequence of this vacancy, and from a regard to the ancient line, the convention appointed the next Proteftant heirs of the blood royal of King Charles I. to fill the vacant thronc, in the old order of fucceftion; with a temporary exception, or prefereuce, to the perfon of King William III.
(10.) On the impending failure of the Proteftant line of King Charles I. (whereby the throne might again have become vacant) the king and parliament extended the fettlement of the crown to the Proteflant line of King James I. viz. to the princefs Sophia of Hanover, and the heirs of her body, being Proteftants: And the is now the common flock, from whom the heirs of the crown mult defcend.

## SF.ct. IV. Of the King's Royal Family.

alvii.
(3.) The king's royal family confifts, firft, of the queen: who is regnant, confort, or dowager.
(2.) The queen confort is a public perfon, and hath many perfonal prerogatives and diltinct revenues.
(3) The prince and princefs of Wales, and the princefs-royal, are peculiarly regarded by the law.
(4.) The other princes of the blood-royal are only entitled to precedence.

## Sect. V. Of the Councils belonging to the King.

xlviii. (1.) The king's councils are, 1. The parliament. 2. The great çouncil of peers. 3. The judges, for matters of law. 4. The privy council.
(2.) In privy counfellors may be confidered, 1. Their creation. 2. Their qualifications. 3. Their duties. 4. Their powers. 5. Their privileges. 6. Their diffolution.

## Sect.' VI. Of the King's Duties.

xlis. (1.) The king's chuties, are to govern his people according to law, to execute judgment in mercy, and to maintain the eftablifhed religion. Thefe are his part of the original contract between himfelf and the people; founded in the nature of fociety, and expreffed in his oath at the coronation.

## Sect. VII. Of the King's Prerogative.

(1.) Prerogative is that \{pecial power and preeminence which the king hath above other perfons, and out of the ordinary courfe of law, in right of his regal dignity.
(2.) Sucl prcrosatives are cither direct, or incidental. The incidental, ariling out of other matters, are conlidered as they arife: We now treat only of the dirch.

## W.

(3.) The direct prerogatives regard, 1. The king's $\frac{L_{\text {wi }}}{}$ digmity, or royal character ; 2. H s authority, or regal Engls powcr: 3. His revenue, or royal income.
(4.) The king's dignity confifts in the legal attributes of, r. Perfonal fovereignty. 2. Abfolute perfection. 3. Political perpetuity.
(5.) In the king's authority, or regal power, confifts the executive part of government.
(6.) In foreign concerns; the king, as the reprefentative of the nation, has the right or prerogative, 1 . Of fending and receiving ambaffadors. 2. Of making treaties. 3. Of proclaiming war or peace. 4. Of iffuing reprifals. 5. Of granting fafe conducts.
(7.) In domeftic affairs ; the king is, frft, a conflituent part of the fupreme legiflative power; hath a negative upon all new laws; and is bound by no fatute, unlefs fpecially named therein.
(8.) He is alfo confidered as the general of the kingdom, and may raife fleets and armies, build forts, appoint havens, erect beacons, prohibit the exportation of arms and ammunition, and confine his fubjects within the realm, or recal them from foreign parts.
(9.) The king is alfo the fountain of juftice, and general confervator of the peace; and therefore may erect courts (where he lath a legal ubiquity), profecute offenders, pardon crimes, and iflue proclamations.
(10.) He is likewife the fountain of honour, of office, and of privilege.
(11.) He is alfo the arbiter of domeffic commerce; (not of foreign, which is regulated by the law of merchants); and is therefore entitled to the erection of public marts, the regulation of weights and mealures, and the coinage or legitimation of money.
(12.) The king is, laftly, the fupreme head of the church; and, as fuch, convenes, regulates, and difilves fynods, nominates bifhops, and receives appeals in all ecclefiaftical caufes.

## SEct. VIII. Of the King's Revenue.

(1.) The king's revenue is either ordinary or extraordinary. And the ordinary is, 1. Ecclefialical. 2.Temporal.
(2.) The king's ecclefiafical revenue confifts in, I. The cuftody of the temporalties of vacant bifhoprics. 2. Corodies and penfions. 3. Extra-parochial tithes. 4. The firff fruits and tenths of benefices.
(3.) The king's ordinary temporal revenue conifits in, 1. The demefne lands of the crown. 2. The hereditary excife; being part of the confideration for the purchafe of his feodal profits, and the prerogatives of purveyance and pre-emption. 3. An annual fum ifluing from the duty on wine licenles; being the reliduc of the fame confideration. 4. His forefts. 5. His courts of jullice. 6. Royal fin. 7. Wrecks, and things jetfam, flotfam, and ligan. 8. Royal mines. 9. Treafure trove. 10. Waifs. 11. Eftrays. 12. Forfeitures for offerices, and deodands. 13. Efcheats of lands. 14. Cuftody of ideots and lunatics.
(4.) The king's extraordinary revenue, confifts in aids, fubfidies, and fupplies, granted him by the commons in parliament.
(5.) Heretofore thefe were ufually raifed by grants of the (nominal) tenth or fificent? part of the move-
ables in every townihip; or by fcutages, hydages, and talliages; which were fucceeded by fubfidies affeffed upon individuals, with refpect to their lands and goods.
(6.) A new fyftem of taxation took place about the time of the Revolution : our modern taxes are therefore, 1. Annual. 2. Perpetual.
(7.) The annual taxes are, 1. The land tax, or the ancient fublidy raifed upon a new affefment. 2. The malt tax, being an annual excife on malt, mum, cyder, and perry.
(8.) The perpetual taxes are, I. The cuftoms, or tonnage and poundage of all merchandife exported or imported. 2. The excife duty, or inland impofition on a great variety of commodities. 3. The falt duty, or excile on falt. 4. The poll office, or duty for the earriage of letters. 5. The famp duty on paper, parchment, \&c. 6. The duty on houfes and windows. 7. The duty on licenfes for hackney coaches and chairs. 8. The duty on offices and penfions.
(9.) Part of this revenue is applied to pay the intereft of the national debt, till the principal is difcharged by parliament.
(10.) The produce of thefe feveral taxes were originally feparate and Jpecific funds, to anfiwer Jpecific loans upon their refpective credits; but are now confolidated by parliament into three principal funds, the aggregate, general, and South fea funds, to anfwer all the debts of the nation: the public faith being alfo fuperadded, to fupply deficiencies, and flrengthen the fecurity of the whole.
(11.) The furplufles of thefe funds, after paying the interelt of the national debt, are carried together, and denominated the finking fund: which, unlefs otherwife appropriated by parliament, is annually to be applied towards paying off fome part of the principal.
(12) But, previous to this, the aggregate fund is now charged with an annual furn for the civil lift; which is the immediate proper revenue of the crown, fettled by parliament on the king at his acceffion, for defraying the charges of civil goverument.

## Sect. IX. Of Subordinate Magifrates.

(i.) Subordinate magiltrates, of the mol general ufe and authority, are, 1. Sheriffs. 2. Coroners. 3. Juflices of the Peace. 4. Confables. 5. Surveyors of the highways. 6. Overfeers of the poor.
(2.) The heriff is the keeper of each county, annually nominated in due 'orm oy the king; and is (within his county) a judge, a confer vator of the peace, a minifterial officer, and the king's oailif.
(3.) Coroners are permanent officers of the crown in each county, clected by the freeholders; whore ofice it is to make inguiry concerning the death of the king's fubjeats, and certain revenues of the crown; and allo, in particular cafes, to fupply the office of theriff.
(4.) J!fices of the peace are magiltrates in each county, fatutably qualified, and commitioned by the king's maje ty: with authority to conferve the peace; to hear and determiine felonier, and other mifdemea-no-s; and to do many other acts commited to their charge by vart © cular itatuec.
(5.) Coryhuthes are o.liure of turdeds and iomnAif. ypocined at the 1 e, and empoucret to preferic Vol. XI. Part 11.
the peace, to keep watch and ward, and to apprehend offeriders.
ors of hi liways are officers appoint Epitomifed. ed annually in every parith; to remove annoyances in, and to direct the reparation of the public roads.
(7.) Overfeers of the poor are officers appointed annually in every parih ; to relieve fuch impotent, and employ fuch fturdy poor, as are fottled in each parith, -by birth,-by parentage,--by marriage,-or by 40 days refidence; accompanied with, I. Notice. 2. Renting a tenement of ten pounds annual value. 3. Paying their affelfed taxations. 4. Serving an annual office. 5. Hiring and fervice for a year. 6. Apprenticefhip for feven years. 7. Having a fufficient eftate in the parif.

## Sect. X. Of the People, whether Aliens, Denizens, ar Natives.

(r.) The people are either aliens, that is, born out of the dominions or allegiance of the crown of Great Britain ; or natives, that is, born within it.
(2.) Allegiance is the duty of all fubjects; being the reciprocal tie of the people to the prince, in return for the protection he affords them; and, in natives, this duty of allegiance is natural and perpetual : in aliens, is local and temporary only.
(3.) The rights of natives are alfo natural and perpetual : thofe of aliens, local and temporary only; unlefs they be made denizens by the king, or naturalized by parliament.

## Sect. XI. Of the Clergy.

(1.) The people, whether aliens, denizens, or natives, are alfo either clergy, that is, all perfons in holy orders, or in ecclefiaftical offices: or laity, which com prehends the reft of the nation.
(2.) The clerical part of the nation, thus defined, are, 1. Archbilihops and bifhops; who are elected by their feveral chapters at the nomination of the crown, and afterwards confirmed and confecrated by each other. 2. Deans arid chapters. 3. Archdeacons. 4. Rural deans. 5. Parfons (under which are included appropriators) and vicars; to whom there are generally requifite, holy orders, prefentation, intitution, and induction. 6. Curates. To which may be added, 7. Church wardens. 8. Parilh clerks and fextons.

## Sect. XII. Of the Civil State.

(1.) The laity are divifible into three fates; civih, military, and maritime.
(2.) The civil thate (which includes all the nation, except the clergy, the army, and the navy, and many individuals among them alfo), may be drvided into the notrility and the commoraly.
(3.) The nobility are dukes, marquifes, earle, vifcounts, and sarons. "Thefe had anciently duties ampexed to their refre live honours: they are created ei her be "rit, that ?, 'y fummons to parliament; or by the kin 弓"ं letten...ent, that is, by royal grant : and hey nujov maty pravilcges exclutive of then feaarorial czpacity.

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(4.) The
f., of En 1 ! Episunfed
(4.) The eomomomaty confitt of kinights of the garter, knivhts ba:merets, baro.ets, knights of the bath, knights ta-holors, efyuires. gentlemen, ycomen, tradefmen, artificers, and labourers.

Sect. XIII. Of the Military and Maritime States.
(t.) The military flate, by the flanding conflitutional law, confifts of the nilitita of each county, railed from anoong the people by lot, officered by the principal landholdere, ad commanded by the lord heutenant.
(2.) The more difciplined occafional troops of the king dom are kept on foot only from year to year by parliamert; and, during that period, are governed by martial law, or arbitrary atticles of war, forned at the pleafure of the crown.
(3.) The marizime flate confifts of the officers and mariners of the Britifl navy; who are governed by expiefs and permanent laws, or the articles of the navy, chablifted by act of parlianemt.

## Sect. XIV. Of Maffer and Servants.

Lvii. (1.) The private, economical, relations, of perfons are thofe of, 1. Mafter and feriants. 2. Hufband and quife. 3. Parent and child. 4. Guardian and uard.
(2.) The firf relation may fubfift between a maffer and four fpecies of fervants; (for flavery is unknown to our laws) : viz. 1. Menial fervants; who are hired. 2. Apprentices; who are bound by indentures. 3. Labourers; who are cafually employed. 4. Stewards, bailiff, and factors; who are rather in a minjferial ftate.
(3.) From this relation refult divers powers to the malter, and emoluments to the fervant.
(4.) The malter hath a property in the fervice of his fervant; and muft be anfwerable for fuch acts as the fervant does by his. exprefs, or implied, command.

## Sect. XV. Of Hufband and Wife.

Iviii.
(1.) The fecond private relation is that of marriagc; which includes the reciprocal rights and duties of hu/band and wife.
(2.) Narriage is duly contracted betreen perfons, 1. Confenting. 2. Free from canonical impediments, which make it voidable. 3. Free alfo from the civil impediments, -of prior marriage, -of want of age-of ron-confent of parents or guardians, where requifite, -and of want of reafon; either of which make it to. tally quid. And it mult be celebrated by a clergyman in due form and place.
(3.) Marriage is diffolved, 1. By death. 2. By divorce in the firitual court: not à menfa et thoro only, tut à vinculo matrimoniiz, for canonical caufe exiring previous to the contract. 3. By act of parliament, as for adultery.
(4.) By marriage the burband and wife become one perfon in law; which unity is the principal foundation of their rcfpective rights, duties, and difabilities.

## SEct. XVI. Of farent ard Child.

ix.
१1.) The third, and moft univerfal private relation, is that of parent and clitd.
(2.) Children are, 1. Lesitimate; being thofe who are born in lawtul wedlock, or vithin a competent time after. ? Bufurds, being the fe who are not fo.
(3.) The dutics of parents to logition me children are, 1. Mainterarce. 2. Pootection. 3. Evention.
(4.) The nower of parenti confits priactually ia corredion, and confent to manirge. Both may after death be delegated by "ill to a guardian; and the former alfo, living the parent, to a tutor or maficr.
(5.) The duties of legitimate chill Iren to parents are obedience, protection, and maintennce.
(6.) The duty of parents to baffards is only that of maintenance.
(7.) The rights of a beflarit are fuch only as he can acquire ; for he is incapable of inheriting any thing.

## Sect. XVII. Of Guardian and Ward.

(t.) The fourth private relation is that of guardian and ward, which is plainly derived from the latl; thefe being, during the continuance of their relation, reciprocally fubject to the fame rights and duties.
(2.) Guardians are of divers forts : 1. Guardians by nature, or the parents. 2. Guardians for nurture, al.figned by the ecclefiaftical courts. 3. Guardians in fo. cage, affigned by the common law. 4. Guardians by ftatute, alligned by the father's will. All fubject to the fuperintendance of the court of chancery.
(3.) Full age in male or female for all purpofes is the age of 21 years (different ages being allowed for different purpofes); till which age the perfon is an in. fant.
(4.) An infant, in refpect of his tender years, hath varicus privileges, and various dilabilities, in law; chiefly with regard to fuits, crimes, eftates and contracts.

## Sect. XVIII. Of Corporations.

(1.) Bodies politic, or corporations, which are artificial perfors, are eftablifhed for preferving in perpetual fuccefion certain rights; which, being conferred on natural perfons only, would fail in procefs of time.
(2.) Corporations are, I. Aggregate, confilting of many niembers. 2. Sole, confilting of one perfon only.
(3.) Corporations are allo either $/$ piritual, erected to perpetuate the rights of the church; or lay. And the lay are, 1. Civil; erected for many temporal purpofes. 2. Elcemofynary ; erected to perpetuate the charity of the founder.
(4.) Corporations are ufually erected and named by virtue of the king's royal charter; but may be created by act of parliament.
(5.) The powers incident to all corporations are, 1. To maintain perpetual fucceffion. 2. To act in their corporate capacity like an individual. 3. 'To hold lands, fubject to the ftatutes of mortmain. 4. lo have a common feal. 5. To make by-laws. Which laft power, in firitual or eleemofynary corporations, may be executed by the king or the founder.
(6.) The duty of corporations is to anfwer the ends of their inflitution.
(7.) To enforce this duty, all corporations may be vifited: fpiritual corporations by the ordinary; lay corporations by the founder, or his reprefentatives; viz.

Law of the civil by the king (who is the fundator incipiens of ngiand all reprefented in his court of king's bench ; the eleeitomifed. nofynary by the endower (who is the fundator perficiens of fuch), or by his heirs or affigns.
(8.) Corporations may be diffolved, 1. By act of parliament. 2. By the natural death of all their inembers. 3. By furrender of their franchifes. 4. By forfeiture of their charter.

Gsii. Chap. II. Of the Rights of Things.

## Sect. 1. Of Property in General.

(I.) All dominion over external objeets has its original from the gift of the Creator to man in general.
(2.) The fubfance of things was, at firft, common to all mankind; yet a temporary property in the ufe of them, might even then be acquired, and continued, by occupancy.
(3.) In procefs of time a permanent property was eftablihined in the fubfance, as well as the ufe, of things; which was alfo originally acquired by occupancy only.
(4.) Left this property fhould determine by the owner's dereliction or death, whereby the thing would again become common, focieties have eftablifhed conveyances, wills, and heirfhips. in order to continue the property of the firf occupant : and, where by accident fuch property becomes difcontinued or unknown, the thing ufually refults to the fovercign of the flate, by virtue of the municipal law.
(5.) But of fome things, which are incapable of permanent fubfantial dominion, there fill fubfilts only the fame trangient ufufrůtuary property, which originally fubfifted in all things.

## Sect. II. Of Real Property; and, firf, of Corporeal Hereditaments.

fxiv.
(I.) In this property, or exclufive dominion, confift the rights of things; which are, 1. Things renl. 2. Things perfonal.
(2.) In things real may be confidered, 1. Their feveral kinds. 2. The tenures by which they may be holden. 3. The effates which may be acquired therein. 4. Their title, or the means of acquiring and lofing them.
(3.) All the feveral kinds of things real are reducible to one of thefe three, viz. lands, tenements, or hereditaments; whereof the fecond includes the firft, and the thind includes the firft and fecond.
(4.) Hercditaments, therefore, or whateser may come 'to be inherited (being the moff comprehenfive denomination of things real), are either corporeal or incorporeal.
(5.) Corporeal hereditaments confin wholly of lands, in their largett legal ferfe; wherein they include not only the face of the earth, hut every other object of fenfe adjoining thereto, and fubilting either above or beneath it.

Sf.ct. III. Of Incorporeal IIerchitaments.
Ifr. (1.) Incorporeal hereditanents are rights ifiuing out
of thinge cornoreal, or concerning, or annexed to, or exercifable within the farac.
(2.) Incorporeal hereditaments are, 1. Advowfons, $\underbrace{\text { Eplit mited, }}$ 2. Tithes. 3. Cormons. 4. Wrays. 5. Offices. 6.Digmities. 7. Frnnciijes. 8. Corodies or penfions. 9. Annuities. 12. Rentr.
(3.) An advoityon is a right of prefentation to an ecclefiaftical benefice; cither appendant, or in grofs. This may be, 1. Peefentative. 2. Collative. 3. Donative.
(4.) Tithes are the tenth part of the increafe ycaity ariing from the profits and flock of lands, and the perfonal indultry of mankind. Thefe, by the ancient and pofitive law of the land, are due of coramon rght to the parfon, or (by endowment) to the vicar; un erfs Specially difchařed, 1. By real compofition. 2. By prefription, either de modo decimnndi, or de non docimando.
(5.) Conmon is a profit which a man hath in the land of another; being, 1. Common of paffure, which is either appendant, appurtenant, becaufe of vicinage, or in grofs. 2. Cummon of pifcary. 3. Common of turhary. 4. Common of eftovers, or botes.
(6.) W'ays are a right of paffing over another man's grourid.
(7.) Offices are the right to exercife a public or private employment.
(8.) For dignities, which are titles of honour, fee chap. i. feet. 12.
(9.) Franchifes are a royal privilege, or branch of the king's prerogative, fubfifting in the hands of a fubject.
(10.) Corodies are allotments for one's fuftenance; which may be converted into penfions, fee chap. i . feat. 8.
(11.) An annuity is a yearly fum of money, charged upon the perfon, and not upon the lands of the granter.
(12.) Rents are a certain profit iffuing yearly out of lands and tenements; and are reducible to, 1. Rentfervice. 2. Rent-charge. 3.Rent-Seck.

## SECT. IV. Of the Feodal Syftern.

(I.) The doctrine of tenures is derived from the foodal lawr which was pla ted in Europe by its northern conquerors at the diffolution of the Roman empire.
(2.) Pure and proper feuds were parcels of land allotted by a chief to his followers, to be held on the condition of perfonally rendering due military fervice to their lord.
(3.) Thefe were granted by inveftiture ; were held under the bond of fealty; were inhcritahle only by defcendants; and could not be transferred without the mutual confent of the lord and vaffal.
(4.) Improper feuds were derived from the other; but differed from them in their original, their fervices and renders, their defent, and other circumflances.
(5.) The lands of England werc converted into feuds, of the improper kind, foon after the Norman conqueft ; which gave rife to the grand maxim of tenure, viz. That all lands in the kingdom are holden, mediately or immediately, $\circ^{*}$ the king.

1svi.

Sect. V. Of the Ancient Englifh Tenures.
(1.) The diftinction of tenures confifted in the mature of their fervices: as, 1. Chivalry, or knight-fervice; where the fervice was free, but uncertain. 2. Free focage; where the fervice was free, and certain. 3. Pure villenage; where the fervice was bafe, and uncertain. 4. Privileged villenage, or villein focage; where the ferwhice was bafe, but certain.
(2.) The moft univerfal ancient tenure was that in chivalry, or by knight-fervice; in which the tenant of every knight's fee was bound, if called upon, to attend his lord to the wars. This was granted by livery, and perfected by homage and fealty; which ufually drew after them fuit of court.
(3.) The other fruits and confequences of the tenure by knight-fervice were, 1. Aid. 2. Relief. 3. Primer feifin. 4. Wardlhip. 5. Marriage. 6. Fines upon alienation. 7 Efcheat.
(4.) Grand ferjeanty differed from chivalry principally in its render, or fervice; and not in its fruits and conlequences.
(5.) The perfonal fervice in chivalry was at length gra lually changed into pecuniary affeffiments, which were called foutage by efcuage.
(6.) Thefe military tenures (except the fervices of grand ferjeanty) were, at the reftoration of King Charles, totally abolifhed, and reduced to free focage by act of parliament.

## Sect. VI. Of the Modern Englifs Tenures.

Pxviii. (I.) Free focage is a tenure by any free, certain, and determinate fervice.
(2.) This tenure, the relick of Saxon liberty, includes petil ferjeanty, tenure in burgage, and gavelkind.
(3.) Free focage lands partake ftrongly of the feodal nature, as well as thofe in chivalry: being holden; fubject to fome fervice, at the leaft to fealty and fuit of court ; fubject to relief, to wardhlip, and to efcheat, but not to marriage; fubject allo formerly to aids, primer feifin, and fines for alienation.
(4.) Pure villenage was a precarious and flavih tenure, at the abfolute will of the lord, upon uncertain fervices of the bafeft nature.
(5.) From hence, by tacit confent or encroachment, have arifen the modern copyliolds, or tenure by copy of court-roll: in which lands may be fill held at the (nominal) will of the lord, (but regulated) according to the cuftom of the manor.
(6.) Thefe are fubject, like focage lands, to fervices, relief, and efcheat; and alfo to heriots, wardhip, and fines upon defcent and alienation.
(7.) Privileged villenage, or villein focage, is an e:ialted Ppecies of copyhold tenure, upen bafe, but certain, fervices : fubfifting only in the ancient demefnes of the crown; whence the tenure is denominated the tenure in ancient demefne.
(8.) Thefe copyholds of ancient demefne have divers immunities annexed to their tenure; but are fill held by copy of court-roll, according to the cuftom of the manor, though not at the will of the lord.
(9.) Frankalmaign is a tenure by fpiritual fervices at large, whereby many ecclefiaftical and eleemofynary corporations now hold their lands and tenements; being of a nature diflinet from tenure by divine fervice in certain.

## Sect. VII. Of Freelold Efates of Inheritance.

(I.) Eftates in lands, tenements, and hereditaments, are fuch intereft as the tenant hath therein; to afcertain which, may be confidered, 1. The quantity of interef. 2. The time of enjoyment. 3. The number and connexions of the tenants.
(2.) Eftates, with refpect to their quantity of intereft, or duration, are cither freehold, or $l_{\epsilon} / s$ than freehold.
(3.) A freehold eftate, in lands, is fuch as is created by livery of feifin at common law; or, in tenements of an incorporeal nature, by what is equivalent thereto.
(4.) Freehold eftates are either eftates of inkeritance, or not of inheritance, viz. for life only: and inheritances are, 1. Abfolute, or fee fimple. 2. Limited fees.
(5.) Tenant in fee fimple is he that hath lands, tenements, or hereditaments, to hold to him and his heirs for ever.
(6.) Limited fees are, 1. शualified, or bafe, fees. 2. Fees conditional at the common law.
(7.) Vualifed or bafe fees are thofe which, having a qualification fubjoined thereto, are liable to be defcated when that qualification is at an end.
(8.) Conditional fees, at the common law, were fuch as were granted to the donee, and the heirs of his body, in exclufion of collateral heirs.
(9.) Thefe were held to be fees, granted on condition that the donee had iflue of his body; which condition being once performed by the birth of iffue, the donee might immediately alien the land: but the ftatute de donis being made to prevent fuch alteration, thereupon from the divifion of the fee (by confruction of this flatute into a particular eftate and a reverfion, the conditional fees began to be called fees tail.
(10.) All tenements real, or favouring of the realty, are fubject to entails.
(Ir.) Eftates tail may be, 1. General, or fpecial ; 2. Male, or female; 3. Given in frank marriage.
(12.) Incident to eftates tail are, I. Wafte. 2. Dover. 3. Curtefy. 4. Bar;-by fine, recovery, or lineal warranty with affets.
(13.) Eltates tail are now, by many flatutes and refolutions of the courts, almolt brought back to the frate of conditional fees at the common law.

## Sect. VIII. Of Freeholds, not of Inheritance.

(1.) Freeholds, not of inheritance, or for life only, are, I. Conventional, or created by the act of the parties. 2. Legal, or created by operation of law.
(2.) Conventional eftates for life are created by an exprefs grant for term of one's own life, or pur auter vie ; or by a general grant, without exprefing any term at all.
(3.) Incident to this, and all other eftates for life,
are eflovers, and emblements: and to eflates per auter vie general occupancy was alfo incident; as fpecial occupancy till is, if cefluy que rie furvives the tenant.
(4.) Legal eftates for life are, 1. Tenancy in tail, after poffibility of iffue extimit. 2. Tenancy by the curtefy of England. 3. Tenancy in dower.
(5.) Tenancy in tail, after pofibility of iflue extinct, is where an eltate is given in fpecial tail; and, before iffue had, a perfon dies from whofe body the iliue was to fpring; whereupon the tenant (if furviving) becomes tenant in anil, after polfbility of iffue extinct.
(6.) This eftate partakes both of the incidents to an effate tail, and thufe of an eftate for life.
(7.) Tenancy by the curtefy of England is where a man's wife is feized of an elate of inheritance; and he by her has iflue, born alive, which was capable of inheriting her eflate; in which cafe he flall, upon her death, hold the tenemeats for his own life, as tenant by the curtefy.
(8.) Tenancy in dower is where a woman's hufband is feized of an eflate of inheritance, of which he: iflue might by any poffibility have been heir; and the hur. band dies: the woman is thereupon entitled to dower, or one-third part of the lands and tenements, to hold for her natural life.
(9) Dower is either by the common law; by $\mathrm{f}_{\mathrm{pe}}-$ cial cuftom; ad ofium ecelefire; or, ex affenfu patris.
(10.) Dower may be forfeited or barred, particularly by an eftate in jointure.

## Sect. IX. Of Efates lefs than Freehold.

(1.) Eftates lefs than freehold are, i. Eftates for years. 2. Eftates at will. 3. Eftates at fufferance.
(2.) An eftate for years is where a man, feized of lands and tenements, letteth them to another for a certain period of time, which transfers the interelt of the term; and the leffee enters thereon, which gives him pofieflion of the term, but not legal feifin of the land.
(3.) Incident to this effate are eftovers; and alfo emblements, if it determines before the full end of the term.
(4.) An effate at will is where lands are let by one man to another, to hold at the will of both parties; and the leffee enters thereon.
(5.) Copyholds are eftates held at the will of the lord, (regulated) according to the cuftom of the manor.
(6.) An eftate at fufferance is where one comes into poffefion of land by lawful title, but keeps it afterwards without any title at all.

## Sect. X. Of Efates upon Condition.

(1.) Eftates (whether freehold or otherwife) may alfo be held uvon condition; in which cafe their exiftence depends on the happening, or not happening, of fome uncertain event.
(2.) Thefe eftates are, 1. On condition implied. 2. On condition expreffed. 3. Eftates in gage. 4. Eflates by fatute, merchant or Ataple. 5. Eftates by elegit.
(3.) Eftates on condition implied are where a grant of an. effate bas, from its effence and conftitution, a
condition infeparably annexed to it; though none be expreffed in words.
(4.) Eftates on condition exprefled are where an ex-

Lav of England $\underbrace{\text { Eptromifed. }}$ prefs qualification or provifion is anucxed to the grant of an ellate.
(5) On the performance of thefe conditions either exprefled or implied (if precedent) the eftate may be velted or enlarged; or, on the breach of them (if fubfequent) an ellate already velled may be defeated.
(6.) Ellates in gage, in vadio, or in pledge, are eflates granted as a fecurity for money lent; being, 1. In viva vadio, or living gage; where the profits of land se granted till a debt be paid, upon which payment the granter's eftate will revive. 2. In mortuo vadio, in decad. or mort gage; where an ellate is granted, on condition to be void at a day certain, if the granter then repays the money borrowed; on failure of which, the eflate becomes abfolutely dead to the granter.
(7.) Eftates by fatute-merchant, or Aatute-flaple, are alfo eftates conveyed to creditors, in purfuance of certain flatutes, till their profits fhall difcharge the debt.
(8.) Efates by elegit are where, in confequence of a judicial writ fo called, lands are delivered by the fleriff to a plaintiff, till their profits fhall fatisfy a debt adjudged to be due by law.

Sect. XI. Of Eflates in Poffeflion, Remainder, and Re-
verfion.
(1.) Eftates, with refpect to their time of cnjoyment, are either in immediate pofefion, or in expectancy; which eftates in expectancy are created at the Came time, and are parcel of the fane eftates, as thofe upon which they are expectant. Thefe are, 1. Rcmainders. 2. Reverfions.
(2.) A remaindor is an eftate linnited to take effect, and be enjoyed, after another particular cflate is de-. termined.
(3.) Therefore, I. There mult be a precedent particular effate, in order to fupport a remainder. 2. The remainder mult pafs out of the granter, at the creation of the particular eftate. 3. The remainder mull velk in the grantee, during the continuance, or at the determination, of the particular effate.
(4.) Remainders are, I. Vefted; where the eftate is fixed to remain to a certain perfon, after the particular elfate is fpent. 2. Contingent; where the effate is limited to take effect, either to an uncertain perfon, or upon an uncertain event.
(5.) An executory devife is fuch a difpofition of Jands, by will, that an eftate fhall not veft thereby at the death of the devifor, but only upon fome future. contingency, and without any precedent particular eflate to fupport it.
(6.) A reverfion is the refidue of an eflate left in the granter, to commence in poffeffion after the determination of fome particular eflate granted : to which are incident fealty, and rent.
(7.) Where two eflates, the one lefs, the other greater, the one in poffeffion, the other in expectancy, meet together in one and the fame perfon, and in one and the fame right, the lefs is merged in the greater.

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## Suct Xill, Of Figates, in Severalty, joint Temancy, Copaicenary, and Common.

(1.) Entales, with refpect to the mumber and connoxions if their tonamis, may be belt. i. is feveral[y. 2. In joint tenancy. 3. In coparcenary t. la cor"mon.
(z.) An eftate in feveralty is where one tenant hold it in his own fole right, without any other perfon being joined with him.
(3) An eftate in joint tenoncy is where an eit is Franted to tlo or more perfons ; in which ca the lass contrues them to be joint tenants, milets the wards of the grant exprefsly exclude fuch condruc:ions.
(4.) Joint tenants have an unity of intereft, of tit!e, of firm and of polfelfion: they are tiled per my et per ron:': and therefire upon the deceafe of one joint tenat, the whole intereft remains to the furviwor.
(5.) Joint tenancy may le diffolved, by deftroying one fir it four conilituent unities.
(6) Ancflate in coparcenary is where an eftate of inberitarice defcends firm the anceltor to two or more perfons; who are called parceners, and all together make but one heir.
(y.) Parcencrs have an unity of intereff, title, and poffition: but are only feif-d per my, and not per for!: herefore there is no furvivorhip among parceness.
(8.) Incident to this eftate is the law of ho!chpor.
(9) Coy.fcenari may alfo be difiolved, by deftroyin: any of is three conflituent unities.
12.) An ellate in common is where two or more perfo : iold lands, poffibly by dittinet titles, and for dift : iniereits; but by unity of pofteffion, becaufe nome knoweth bis own deveralty.
(11.) Tenants in common have therefore an unity of polleflion, (without furvivorlhip; being teifed per my, and not per $16 \mathrm{c}_{\mathrm{t}}$;) but no neceflary unity of title, t:me, or intereft.
(12.) Flhis eftate may be created, 1. By diffolving the comftuent unities of the two former; 2. By expref limitation in a grant : and may be deftroyed, 1. By unicing the feveral tittes in one tenant; 2. By partition of the land.

## Sxct. XIII. Of the Title to Things Resl, in General.

Euxv. (1.) A tiote to things real is the means whereby a man cometh to the juft poffelfion of his property.
(2.) Herein may be confidered, 1. A mere or raked pofieftion. 2. The right of pofteffion; which is, $1 / \ell$, an apparent, $2 \mathrm{dh}_{3}$, an actual right. 3. The mere lighe of property. 4. The conjunction of aftual poffeffion with both thefe zights; which conttitutes a perfect title.

## Sret. XIV. Of Title by Defcen:.

4xil.
(1.) Tlee itite to things real may be reciprocally acquired or lon, I, By rlefcent. 2. By purchafe.
(2.) Defocnt is the measis whereby a man, on the death of his anceftor, accuires a title to the effate, in fight of his reprelentation, as his heir at lar.

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(2.) 'lo underftand the doctrine of defcents, we muft Law formi a clear notion of confanguinity; which is the con- Eng nexion, or relation, of pertons cefcended from the fame ifock or common ancellor; and it is, I. Lineal, where one of the kinfmen is lineally defcended from the other. 2. Collate al, where they are lineally defeended, rot one from the other, but both from the fame commus ancetlor.
(4) Tie rules of defcent, or canons of inheritance, of eaver by the laws of England, are thefe:
$1 / f$, laliertances thall lineally defcend to the ifue of the perfon laft ar ually feifed, in infinitum; but fhall never lineally ateend.
2 t , The male infue fhall be admitted before the female.
$3^{d}$, TWhere there are two or more males in equal degree, the eldef only fhall inherit; but the females all together
$4^{\text {th }}$ The lineal defcendants, in infinitum, of any perfon deceafed thall reprefont their anceltor; that is, thall ftand in the fame place as the perton himfelf would have done, had he been living.
5th, On failure of lineal defcendants, or iffue, of the jerfinn laft feifed, the inheritance fhall defcend to the blood of the firf purchafer; fubject to the three preceding rules. To evidence which blood, the two follorsing rules are eltablithed.
6 th, ' The collateral heir of the perfon laft feifed muft be his next collateral kinfman, of the whole blood.
$7^{t h}$, In collateral inheritances, the male focks fhall be preferred to the female; that is, kindred derived from the blood of the male anceftors thall be ad nitted before thofe from the blood of the female : unlefs where the lands have, in fact, defcended fiom a female.

## Sect. XV. Of Tille by Purchafe, and fint by Efcheat.

(1.) Purchafe, or perquifition, is the poffeffion of an ellate which a man hath by his own act or agreement ; and not by the mere act of law, or defcent from any of his anceftors. This includes, 1. Efcheat. 2. Uccupancy. 3. Prefoription. 4. Forfeiture. 5. Alienation.
(2.). Efcheat is where, upon deficiency of the tenant's inhiritable blood, the eftate falls to the lord of the fee.
(3) Inheritable blood is wanting to, I. Such as are not related to the pirfon laft feifed. 2. His maternal relations in patermal inheritances, and vice vorfa. 3. His kindred of the half hlood. 4. Monlters. 5. Baftaids. 6. Aliens, and their iffue. 7. Perfon- attainted of treafon or felunv. 8. Papifts, in refpect of themielses only, by the 估帾ute law.

## Sect. XVI. Of Title ly Occurancy.

(1.) Occupancy is the taking polfellion of thofe lxatis things which before had no ownor.
(2) Thus, at the comminn hus, w'ere tenant pur nuter vie died during the hife of cefuy que vie, he, who could fun enter, might lanfully rea.n the :ofletfinn; unlefs by the original grant the heir was made © pecial occupant.
(3.) I he law of derelifions and alluaions han narrowed the title of occupancy.
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, rowed the tiche of occupancy.

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## Sex. XVII. Of Title ty Prefcription.

(1.) Prefcription (as diftinguifhed from cufforn) is a perforal immemorial ufage of enjoying a right in tome incorpureal hereditament, by a man, and either his anceltors or thofe whofe ellate of inheritance he hath : of which the firt is called prefcribing in his ancefors, the latter in a que eflate.

## Sect. XVIII. Of Tille by Forfeiture.

(1.) Forfeiture is a puniflment annexed by lasy to fome illegal act, or negligence, in the owner of things real; whereby the eftate is trausferred to another, who is ufually the party injured.
(2.) Forfeitures are occafioned, 1. By crimes. 2. By alienation, contrary to law. 3. By lapfe. 4. By fimony. 5. By nomperformance of condiuions. 6. By wafie. 7. By breach of copyhold cufoms. 8. By bankrupicy.
(3.) Forfeitures for crimes or mifdemeanors, are for, 1. Treafon. 2. Felony. 3. Mifprifion of treafon. 4. Prcemanire. 5. Affuults on a judge, and batteries, fitting the courts. 6. Popith recufancy, \&e.
(4.) Alicnalions, or conveyances, which induce a forfeiture, are, 1. Thofe in mortmain, made to corporations contrary to the fatute law. 2. Thofe made to aliens. 3. Thofe made by particular tenants, when larger than their eitates will warrant.
(5.) Lapfe is a forfeiture of the right of prefentation to a vacant church, by neglect of the patron to prefent within lix kalendar months.
(6.) Simony is the corrupt prefentation of any one to an eccleniaftical benefice, whereby that turn becomes forfeited to the crown.
(7.) For forfeiture by nonperformance of conditions, fee Sect. 10.
(8.) Wofle is a fpoil, or deftruction, in any corporeal hereditaments, to the prejudice of him that hath the inheritance.
(9.) Copyhold eftates may have alfo other peculiar eaufes of forfeciure, according to the cuitom of the manor.
(io.) Bankruptcy is the att of becoming a bank. rupt; that is, a trader who fecretes himfelf, or does certain other acts tending to defraud his creditors, fee Sect. 22.
(II.) By bankruptcy all the eftates of the bankrupt are transferred to the affignees of his commitioners, to be fold for the benefit of his creditors.

## Sect. XIX. Of Tille by Alienation.

(t.) Alienation, conveyance, or purchafe in its more limited fenfe, is a means of transferring real eftates, whercin they are voluntarily refigned by one man, and accepted by another.
(2.) This formerly could not be done by a tenant, withour licenfe from his lord; nor by a lord, without attornment of his tenant.
(3.) All ocrfons are eapable of purchafing; and all that are in poffefinn of any eltates, are capable of conveying them: rinlefs under peenliar difabilities by lav: : as bing attainted, non compoies, infarits under durefs, feme coverts, aliens, or papilts.
(+.) Alienations are made by common affurances; whicin are, 1. By deed, or matter in pais. 2. By mat- En iand ter of record. 3. By fecial cufom. 4. By devijc.

## Sect. XX. Of Alienation by Deed.

(t.) In allurances by deed may be conidercd, I. Its general naiture. 2. Its /everal fpecies.
(2.) A deed, in general, is the folemn act of the parties; being ufually a writing fealed and delivered; and it may be, 1. A deed indented, or indenturc. 2. A deed poll.
(3.) The requifites of a deed are, i. Sufficient par. ties, and proper fubject matter. 2. A good and lifficient confideration. 3. Writing on paper, or parchment, du!y flamped. 4. Legal and orderly parts: (which are ufually, ift, the premifes; 2 dly, the habendum; 3 dly , the tenendum; 4thly, the reddendunn; jthly, the conditions; 6thly, the warranty, which is either lineal or collateral ; 7thly, the covenants; 8:bly, the conclufion, which includes the date). 5. Reading it, if defired. 6. Sealing, and, in many cales, fggning it alfo. 7. Deifuery. 8. Alteflation.
(4.) A deed may be avoided, 1. By the want of any of the requifites before mentioned. 2. By fublequent matter; as, ift, Rafure, or alteration. 2dly, Defacing its feal. $3^{\text {dly }}$, Cancelling it. $4^{\text {thly }}$, Difagrcement of thofe whofe conlent is necellary. sthly, Judgement of a court of juftice.
(5.) Of the feveral fpecies of deeds, fome ferve to convey real property, fome only to charge and difcharge it.
(6.) Deeds which ferve to convay real property, or conveyances, are either by common law, or by Aatute. And, of conveyances by common law, fome are original or primary, others derivative or fecondary.
(7.) Original conveyances are, 1. Feoffments. 2. Gifis. 3. Grants. 4. Lenfes. 5. Fixchanges. 6. Partilions. Derivative are, 7. Relenfes. 8. Confi mations. 9. Surrealders. 10. Alformments. 11. Defenzances.
(8.) A feoffment is the transfer of any corporeal hereditament to another, perfected by livery of feifin, or delivery of bodily poffeflion from the feoffer to the feoffee; without which no freehold eftate therein can be created at common law.
(9.) A gift is properly the conveyance of lands in tail.
(10.) A granit is the regular methot, by common law, of conveying incorporeal hereditaments.
(11.) A leafe i, the demife, granting, or letting to faan of any tenemert, ulually for a lefs term than the leffor hath therein; yet fometimes poffibly for a greater ; according to the regulations of the reltraining and enabling ltatutes.
(12.) An exchange is the mutual conveyance of equal interetts, the one in confideration of the other.
(13.) A parition is the divilion of ant culate held in joint tenancy, in coparcenary, or in common, between the relpective tenants; fo that each may hold his ditlinct part in feveralty.
(1.) A relenfe is the difcharge or conveyance of a man's right, in lands and tenements, to another that hath fome tormer eltate in policition therein.
(15.) A confirmation is the conveyance of an eflate or right at e/fe, wherely a voidable eltate is made fure, or a particular eftate is increafed.
(i6.) A.
(16.) A forrender is the yielding up of an eflate for life, or years, to him that hath the immediate remainder or reverfion; whereir the particular eflate may merge.
(17.) An affrgment is the transfer, or making over to another, of the whole right one has in any eflate; but ufually in a leafe, for life or years.
(18.) A defeazance is a collateral deed, made at the fame time with the original conveyance ; containing fome condition, upon which the eflate may be defeated.
(19.) Conveyances by fatute depend much on the doctrine of afes and truffs: which are a confidence repofed in the terre tenant, or tenant of the land, that he flall permit the profits to be enjoyed, according to the directions of cefluy que ufe, or cefluy que truf.
(20.) The flatute of ufes, having transferred all ufes into actual poffelion, (or, rather, having drawn the polfeflion to the ufe, has given birth to divers other fpecies of conveyance: 1. A covenant to fland feized to $u f$ e. 2. A bargain and fale enrolled. 3. A leafe and releafe. 4. A deed to lead or declare the ufe of other more direct conveyances. 5. A revocation of ufes; being the execution of a power, referved at the creation of the ufe, of recalling at a future time the ufe or effate fo creating. All which owe their prefent operation principally to the flatute of ufes.
(21.) Deeds which are ufed not to convey. but only to charge real property, and difcharge it, are, I. Obligations. 2. Recognizances. 3. Defeazances upon both.

## Sect. XXI. Of Alienation by maller of Record.

kssiii.
(1.) Affurances by matter of record are where the fanction of fome court of record is called in, to fubftantiate and witnefs the transfer of real proverty. Thefe are, 1. Private acts of parliament. 2. The king's grants. 3. Fines. 4. Common recoveries.
(2.) Private acts of parliament are a \{pecies of affurances, calculated to give (by the tranfcendant authority of parliament) fuch reafonable powers or relief as are beyond the reach of the ordinary courfe of law.
(3.) The king's grants, contained in chaters or letters patent, are all entered on record, for the dignity of the royal perfon, and fecurity of the royal revenue.
(4.) A fine (fometimes faid to be a feoffment of record) is an amicable compofition and agrement of an actual, or fictitious, fuit; whereby the eflate in queltion is acknowledged to be the right of one of the parties.
(5.) The perts of a fine are, I. The writ of covenant. 2. The licenfe to agree. 3. The concord. 4. The note. 5. The foot. To which the fatute hath added, 6. Proclamations.
(6.) Fines are of four kimls: Sur cognizance de sirsit, come ceo que if ad de fon done. 2. Sur cognizance de drait cantum. 3 Sur conceffit. 4. Sur donc, grant, e: render; which is a double fine.
(7.) The force and effect of fines (when levied by fuch as have themfelves any intereft in the eftate) are ts alfu:e the lends in queltion to the cognizee, by barsing the refpective rights of parties, frivies, and Runger.
(8.) A common recovery is by an actual, or fictitious, fuit or action for land, brought againft the tenant of the freehold; who thereupon vouches another, who undertakes to warrant the tenant's title: but, upon fuch vouchee's making default, the land is recovered by judgement at law againft the tenant; who, in return obtains judgement againft the vouchee to recover lands of equal value in recompenfe.
(9.) The force and effect of a recovery are to alfure lands to the recoverer, by barring eftates tail, and all remainders and reverfions expectant thereon; provided the tenant in tail either fuffers, or is vouched in, fuch recovery.
(10.) The ufes of a fine or recovery may be directed by, I. Deeds to lead fuch ufes; which are made previous to the levying or fuffering them. 2. Deeds to declare the ufes; which are made fubfequent.

## Sect. XXII. Of Alienation by Special Cuffom.

(1.) Affurances by feccial cuffom are confined to lix the transfer of copyhold eftates.
(2.) This is effected by, 1. Surrender by the tenant into the hands of the lord to the ufe of another, according to the cuflom of the manor. 2. Prefentment, by the tenants or homage, of fuch furrender. 3. Admittance of the furrenderee by the lord, according to the ufes expreffed in fuch furrender.
(3.) Admittance may alfo be had upon original grants to the tenant from the lord, and upon defcents to the heir from the anceftor.

## Sect. XXIII. Of Alienation by Devife.

(r.) Devife is a difpofition of lands and tenements, lxxs contained in the laft will ard teftament of the owner.
(2.) This was not permitted by the common law, as $:$ : flood fince the conqueft ; but was introduced by the insute law, under Henry VIII. fince made more univerlal by the flatute of tenures under Charles II. with the introduction of additional folemnities by the flatute of frauds and perjuries in the fame reign.
(3.) The confiruction of all common affurances fhould be, I. Agreeable to the intention. 2. To the words of the farties. 3. Made upon the entire deed. 4. Bearing fitrongef ayaintt the contralor. 5. Conformable to law. 6. Rejecting the latter of two totally repugnant claufes in a deed, and the former in a will. 7. Mof favourable in a cafe of devife.

## Sect. XXIV. Of Things Perfonal.

(1.) Things perfonal are comprehended under the general name of chatels; which includes whatever yants either the duration, or the immobility, attending thing: real.
(2.) In thele are to be confidered, I. Their difribution. 2. The property of them. 3. The title to that property.
(3.) As to the difribution of chattels, they are, I. Chattels real. 2. Chattels perfonal.
(4.) Chattels real are fuch quantiises of intereft, in things in mbvelle, as are flort of the duration of ireeholds; Leing limited to a time certa:!, $t$ yond which they camot lubrin. (See Sett. I.)
(5) Clinttels
(5.) Chatucls perfonal are things moweable; which anland may be transferred from place to place, together with ryomifed ihe perfon of the owner.

Sect. XXV. Of Property in Things Porfonal.
uxvii. (t.) Property, in chattels perfonal, is either in $p o f$ Seflion, or in action.
(2.) Property in pofffion, where a man has the ac. tual enjoyment of the thing, is, 1. Abfolute. 2. श/falifed.
(3.) Alfolute property is where a man has fuch an exclufive right in the thing, that it cannot ceafe to be his, without his own act or default.
(t.) शualifed property is fuch as is not, in its nature, permaneat ; but may fometimes fubfift, and at other times not fubfift.
(5.) This may arife, 1. Where the fubject is incapable of abfolute ownerthip. 2. From the peculiar circumfances of the owners.
(6.) Property in aftion, is where a man hath not the actual occupation of the thing; but only a right to it, arifing upon fome contract, and recoverable by an action at law.
(7.) The property of chattels perional is liable to remainders, expectant on effates for life; to joint tenancy; and to tenancy in common.

## Sect. XXVI. Of Tizle to Things Perfonal by Occupancy.

(1.) The title to things perfonal may be acquired or lolt by, 1. Occupancy. 2. Prerogative. 3. Forfeilture. 4. Cufom. 5. Succeffon. 6. Marriage. 7. Yudgement. 8. Gift, or grant. 9. Contratt. 10. Bankruprcy. 11. Tefament. 12. Adminifraion.
(2.) Occupancy fill gives the firt occupant a right to thofe few things which have no legal owner, or which are incapable of permanent ownerfhip. Such as, 1. Goods of alien enemies. 2. Things found. 3. The benefit of the elements. 4. Animals force nouura. 5. Emblements. 6. Things gamed by acceffion ; or, ${ }^{7}$. By confufion. 8. Literary property.

## Sect. XXVII. Of Title by Prerogative, and Forfeiture.

(1.) By prerogative is vefted in the cromn, or its granters, the property of the royal sevenue, (fee Chap. I. Sect.8.); and alfo the property of all game in the kingdom, with the right of purfuing and taking it.
(2.) By forfeiture, for crimes and mifdemeanors, the right of goods and chattels may be transferred from one man to another ; either in part or totally.
(3.) Total Eorfeitures of goods arife fron conviction of, 1. Treafon, and mifprifion thereof. 2. Felony. 3. Excufable homicid. 4. Outlawry for treafon or felony. 5. Flight. 6. Standing mute. 7. Aliaults on a juege; and batterics, fitting the courts. 8. Pramanire. 9. Pretended prophecics. 10. Owling. 11. Refidirg abroad of artificers. 12. Challenges to fight, for delts at play.

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W. right may be acquired in chatiels; the mofl ufual of which cuftoms are thofe relating to, i. Herios. 2. Mortuaries. 3. Heir looms.
(2.) Heriots are cither heriot fervice, which differs little from a rent; or heriot cuftom, which is a cuflomary tribute, of goods and chattels, payable to the lord of the fee on the deceafe of the ormer of lands.
(3.) Mortuaries are a cuftomary gift, due to the miniter in many parihes, on the death of his parihioners.
(4.) Heir looms are fuch perfonal chattels, as de'cend by fecial cuftom to the heir, along with the inheritance of his anceftor.

## Sect. XXIX. Of Tille by Succeficn, Marriage, and yuagement.

(1.) By fucceffor the right of chattels is vefted in corporations aggregate; and likewife in fuch corporations fole as are the heads and reprefentatives of bodies aggregate.
(2.) By marriage the chattels real and perfonal of the wife are vefted in the hufband, in the fame degree of property, and with the fame powers, as the wife when fole had over them; provided he reduces them to polieflion.
(3.) The wife alfo acquires, by marriage, a property in her own paraphernalia.
(4.) By judgement, confequent on a fuit at lasx, a man may in fome cafes, not only recover, but originally acquire, a right to perfonal property. As, i. To penalties recorcrable by action popular. 2. To damages. 3. To cont of fuit.

## Sect. XXX. Of Title by Gift, Grant, and Contraci.

(1.) A gift, or grant, is a voluntary conveyance of a chattel perfonal in poitefion, without any confideration or equivalent.
(2.) A contrat is an agreement, upon fufficient confideration, to do or not to do a particular thing : and, by fuch contract, any perfonal property (either in poffelfion or in action) may be transferred.
(3.) Contracts may either be exprefs or implied; either executed or executory.
(+.) The confideration of contracts is, 1. A good confideration. 2. A valuable confideration; which is, 1. Do, ut des. 2. Facio, ut facias. 3. Facio, ut des. 4. Do, ut facias.
(5.) The moft ufual fpecies of perfonal contracts are, 1. Sale or exchange. 2. Bailment. 3. Hiving or borrawing. 4. Debt.
(6.) Sale or exchange is a tranfrutation of property from one man to another, in confideration of fome recompenfe in value.
(7.) Bailment is the delivery of goods in truft ; upon a contract, exprefs or implied, that the truf hiall be faithfully performed by the bailec.
(8.) Hiring or borrowing is a contradt, whereby the 4 H poffefion
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poliefion of ciatitels is transfezzed for a particular time, on condition that the identical goods for formetimes their value) be reftored at the time appoatted, togather with (in cafe of hiring) a ftivead or price for the wf.
(9.). This price. beine calculated to anfwer the hazard as well as insoavenience of lending, gives birth to the doatrine of inicref, or ufury, upon loans; and, confentendy, to the doatrine of lotionry or refondontia, and infurarce.
(10.) We $e^{\prime}$ is any contraç, whereby a cettain fum of innary becomes due to the creditor. This is, I. A debt of recorz.2. A debt upon foicial contraat. 3. A delt upon fimple contrat ; which laft includes paper credit, or bills of exchange, and promiffory 110tes.

## Sect. XXXI. Of Ti:le by Bankruptcy.

(I.) Bankruptcy (as defined in Sect. 18.) is the aet of becorning a bankrupt.
(2.) Heicin may be confidered, I. Who may become a bankrupt. 2. The afts whereby he may become a bankrupt. 3. The proccedings on a commiffion of bankrupt. \&. How his property is transferred thereby.
(3.) Perfons of full age, ufing the trade of merchandife, by buying, and felling, and leeking their livelihood thereby, are liable to become bankrupts; for deb-s of a futficient amount.
(4.) A trader, who endeavours to ayoid his creditors, Er evade their juft demands, by any of the ways fpecified in the feveral ftatutes of bankruptcy, doth thereby commit an act of barkruptcy.
(5.) The proceedings on a commiliion of bankrupt, fo tar as they affect the bankrupt himfelf, are principally by, i. Petition. 2. Coummifion. 3. Declaration of bankruptcy. 4. Chaice of afligrees. 5. The hankrupt's furrender. 6. His examination. 7. His difovery. 8. His certificate. 9. His ailowance. 10. His indemrity.
(6.) The property of a bankrupt's perfonal eftate is, immedia:ely upon the act of bankruptcy, velted by conitruction of law in the affignees; and they, when they have collected, diftribute the whole by equal diviCends among all the creditors.

## Sect. XXXII. Of Tüle ly Teßament, and AdrxiniAiration.

(1.) Concerning tefaments and adminifrations, confidered jointly, are to be obferved, 1. 'Their original and antiquity. 2. Who may make a teftarment. 3. Its nature and incidents. 4. What are executors and admimiftrators. 5 Their office and duty.
(2.) Teflaments have fubfifted in England :mmenorially; whereby the deceafed was at liberty to difpofe of his perfonal eftate, referving anciently to his wife and children their renfonable part of his effects:
(3.) The goods of inteflates belonged anciently to the hing; who granted them to the prelates to he difpoled in pious ufes: hut, on their abufe of this trult in the times of Popery, the legiflature compelled them to delegate their power to adminifirators exprefsly provided by law.
(4.) All perfons may make a tefament uniefs dif
abled by, i. Want of diferetion. 2. Wיant of frce will. Lawe ef 3. Criminal conduet.
(5.) Teficments are the legal declaration of a man's Epitomifee intentions, which he wills to be performed after his death. Thele are, I. Written. 2. Nuncupative.
(6.) A: cxecutor is he, to whom a man by his will commits the execution thereof.
(7.) Alminiflators are, 1. Durante minore atate of an infant execuior or adminitrator ; or durante alfentia; or pendeate hite. 2. Cum toflamento annexo; when no executor is namid, or the executor refufes to at. 3. General adminiftrators; in purfuance of the fatutes of Edward I11, and Henry VIII. 4. Adminitters $d e$ bonis non; when a former executor or adminiftrator dies without completing lis :rull.
(8.) The office and duty of executors (and, in many prints, of adminitrators alfo) are, 1. To bury the deceafed. 2. To prove the will, or talie out adminifration. 3. To make an inventory. 4. To collect the goous and clattels. 5. To pay debts ; obferving the rules of pricrity. 6. To pay legacies, either general or fpecific; it they be welted, and not lapled. 7. To diftribute the undevifed furplus, according to the ftatute of diftributions.

## Chap. III. Of Private Wrongs.

Sect. I. Of the Redrefs of Private Wrougs, by the mere Act. of the Parties.
(I.) Wrosgs are the privation of right; and are, 1. Private. 2. Public.
(2.) Privale urongs, or civil injuries, are an infringement, or privation, of the civil rights of individuals, confidered as individuals.
(3.) The redrefs of civil injuries is one principal object of the laws of Erigland.
(4.) This redrefs is cffected, 1. By the mere af of the parties. 2. By the mere operation of laut. 3. By both together, or fiut in courts.
(5.) Redrcfs, by the mere act of the parties, is that which arifes, I. From the fole act of the party injured. 2. From the joint act of the parties.
(6.) Of the firlt fort are, I. Defence of one's feif, or relations. 2. Recaption of goods. 3. Entry on lands and tenements. 4. Abatement of nuifances. 5. Diftrefs ; for rent, for fuit or fervice, for amercements, for damage, or for divers flatutable penalties; made of fuch things only as are legally diftrainable; -and taken and difpofed of according to the due courfe of law. 6. Seifing of heriots, \&c.
(7.) Of the fecond fort are, 1. Accord. 2. Arbitration.

## Sect. II. Of Redrefs by the mere Operation of Law.

Redrefs, cffected by the mere operation of law, is, I. In the cafe of retainer; where a creditor is executor or adminiftrator, and is thereupon allowed to retain his own dett. 2. In the cale of renzituer; where one, who has a grood title to lands, \&ec. comes into pofferfion by a bad one, and is thereupon remitted to his ancient good title, which protects his ill-acquired pofferfion.

Sect.
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scrii.
(1.) Redrefs, that is efficeted by the act both of law and of the parties, is by fuit or asion in the courts of juttice.
(2.) Herein may be confidered, 1. The couris themSelves. 2. The cogrisance of irrongs or injuries therein. And, of couris, 1. Their nature and incidens. 2. Their teveral fpecies.
(3.) A co:rrt is a place wherein juftice is judicially adminiftered, by officers delegated by the crown; being a court either of record, or not of record.
(1.) Incidenzt to all courts are a plaintiff, defendant, and judge: ard, with us, there are allo ufually attor. neys; and advocates or counfel, viz. either barrifters or ferjeants at law.

## Sect. IV. Of the Public Courts of Comnon Law and Equity.

seriii. (r.) Courts of jußice, with regard to their feveral Speeies, are, 1. Of a public, or general, jurifdiction throughout the realm. 2. Of a prizate, or lpecial, juriidietion.
(2.) Public courts of jullice are, I. The courts of comman law and equity. 2. The ecelefopfical courts. 3. The mifitary courts. 4. The maritime cuurts.
(3.) The general and public courts of common la=u and equity are, I. The court of piepoudre. 2 . The court-baron. 3. The hundred court. 4. The county count. 5. The court of common pieas. 6. The court of ling's berch. 7. The court of exchequer. 8 The court of chancery. (Which two laft are courts of equity as well as low . 9. The courts of exchequer clamber. 10. The houfe of peers. To which may be added, as auxiliaries, 11. The courts of allize and nyiz prius.

Sect. V. Of Courts Ecelefinfical, Mihiary, and Mari.
lime.
xiir. (J.) Ecciefiaftical courts, (which were feparated from the temporal by William the Conqueror), or courts Chrifian, are, 1. The courts of the archdeacon. 2. The court of the bithop's confiftory. 3. The court of arches. 4. The court of peculiars. 5. The prerogative court. 6. The court of delegates. 7. The court of revier.
(2.) The cilly permonent military court is that of chivalry; the courts martial, annually efablifhed by act of parliament, being only temporary.
(3.) Martime courts are, 1. The court of admiralty and vice-kinniralty. 2 The court of delegates. 3 . The lords of the privy council, and others, authorized by the king's comnifition, for appeals in prizecaufes.

## Sect. VI. Of Courts of a Soscial Yurifdition.

C. Courts of a frecial or private juriciction are, 1. The foren courts; including the cuurt of attach1ments, regard, fuienmot, and jufice feat. 2. The

A W.
court of commifioners of lewers. 3 . The court of po- Law of licies of affurance. 4. The court of the marfanfica and England the palace court. 5. The courts of the principality of $\underbrace{\text { Epiconifted }}$ Wales. 6. The court of the duchy clamber of Lancaller. 7. The courts of the counties palatine, and uther royal frathichifes. 8. The thantery courts. 9. The courts of London, and other corporations:-To which may be referred the courts of requells or courts of confeience; and the modern regulations of certain courts baron and county courts. 10. The courts of the two univerlitics.

## Sect. Vll. Of the Cognizance of Private Wrongs.

(1.) All prirate wrongs or civil injuries are cognizable cither in the courts ccclefiafical, military, maritime, or thofe of common law.
(2.) Injuries cognizable in the ceelefioftical courts are, I. Pecuniary. 2. Matrimonial. 3. Tefamentary.
(3.) Pecuniary injuries, here cognizable, are, 1. Subtracion of tithes. For which the remedy is by fuit to compel their payment, or an equivalent; and alifo thei; double value. 2. N'sn-payment of ecclefintical dues. Remedy: by fuit for payment. 3. spoliation. Remedy: by luit for reftitution. 4. Dilapidations. Remedy: by fuit for damages. 5. Non-repair of the church, \&xc.; and non payminent of church-rates. Remedy : by fuit to compel them.
(4.) Matrimamial injuries are, 1. Façitation of marriage. Remedy: by luit for perpetual filence. 2. Subtraction of conjugal rights. Remedy: by fuit for reflitution. 3. Inability for the marriage flate. Kemedy; by fuit for divorce. 4. Refifal of decent maintcnance to the swife. Remedy: by fuit for alimony.
(5.) Teftamentary injuries are, 1. Difputing the validity of wills. Remedy: by fuit to eftablith them. 2. Ot/fructing of admimifrations. Remedy: by fuit for the granting them. 3. Suttratica of legaciss. Remady : hy fuit for the payment.
(6.) The courfe of proceedings herein is much colsformed to the ciril and canon law: but their only compulfive procefs is that of excommunication; which is enforced by the temporal writ of fisuifanit, or de exconmurnicato eapiendo.
(7.) Civil injuries, connizable in the court military, or court of chivalry, are, 1. linjuries in point of hionour. Remedy: by fuit for hunourable at:ends. 2. Encroachments in coot crmour, \&c. Remedy: by fuit to remove them. The procetdings are iat anmo mary method.
(8.) Civil injuries cognizable in the courts onaritime, are injuries, in their nature, of cemmon law cognizance, but arifing wholly upon the fea, and not within the precincts of any county. The proceedings are herein alfo much conformed to the civil law.
(9) All other injuries are cogrnizable only in the courts of common law: of which in the remainder of this chapier.
(10.) 'Two of them are, however, commifible by thefe and other inferior courts, viz. J. Refulal, or neglect, of jufliec. Remedies: by writ of procedendo, or mandamus. 2. Eneroachernent of jurifdicion. Remedy : by writ of prchilition.

Law of
Ercland Sect. VILL. Of Wrongs and sheir Remedics, refpecting Evitumaled.
cii.
(3.) In treating of the cognizance of injuries by the courts of common law, may be conlidered, 1 . The injurries themfelves, and their refpective remedies. 2. The purfuit of thofe remedies in the feveral courts.
(2.) Injuries between fubject and fubject, cognizable by the courts of common law, are in general remedied by putting the party injured into poifeflion of that right whereof he is unjutly deprived.
(3.) This is effected, 1. By delivery of the thing detained to the rightful owner. 2. Where that remedy is either impofible or inadequate, by giving the paty injured a Jatiffattion in damages.
(4.) The inftruments, by which thefe remedies may be obtained, are fuits or actions; which are defined to be the legal denand of one's right: and thefe are, 1. Perfonal. 2. Real. 3. Mixed.
(5.) Injuries (nhereof lome are with, others without, force) are, 1. Injuries to the rights of perfons. 2. Injuries to the rights of property. And the furmer ate, 1. Injuries to the ablolute, 2. Injuries to the relative, rights of perfons.
(5.) The abfolute rights of individuals are, I. Perfonol focurity. 2. Perfonal liberty. 3. Private property: (See Chap. I. Sect. r.) To which the injuries mult be correfpondent.
(7.) Injuries to perfonal focurity are, 1. Againft a man's life. 2. Againdt his limbs. 3. Againt his bsdy. 4. Againft his health. 5. Againft his reputation.The firlt mult be referred to the next chapter.
(8) Injuries to the limbs and body are, 1. Threats. 2. Affault. 3. Battery. 4. Wounding. 5. Mayhem. Remedy: by action of trefpafs, vi et armis; for damages.
(9.) Injuries to health, by any unwholefome practices, are remedied by a fipecial action of trefpals, on the cafe ; for damages.
(10.) Injuries to reputation are, 1. Slanderous and malicious words. Remedy: by action on the cale; for damages. 2. Libels. Remedy: the fame. 3. Malicious profecutions. Remedy: by action of confpiracy, or on the cale; for damages.
(11.) The fule injury to perfonal liberty is falfe imprifonivent. Remedies: 1. Ky writ of 1At, Mainprize; 2dly, Odio et alia; 3dly, Homine replegiando; 4thly, Habeas corpus; to remove the wrong. 2. By action of trefpafs; to recover damages.
(12.) For injuries to private property, fee the next lection.
(13.) Injuries to relatives rights affect, I. Hufbands. 2. Parents. 3. Guardians. 4. Mafters.
(14) Injuries to a hufband are, 1. Alduction, or taking away his wife. Remedy: by action of trelpafs, de uxore rapta et abducta; to recover polfeflin of his wife, and damages. 2 Criminal conjerfation with $\mathrm{h}-\mathrm{r}$. Remedy : byaation on the cafe; for dimages. 3. Bentine her. Remedy: by action on the cafe, per guod confortium amift; for damages.
(15.) The only injury to a parent or guardian is the aluluction of their children or wards. Remedy: 'y :cliun of trefpafs, de filiis, vel cuforiuis, raptis vil abducsis; to recover puffelion of them, and dimages.
(16.) Injuries to a maflor are, 1. Retaining his fer- Lawo vants. Remedy: by action on the cafe; fur damages. Englan 2. Beating them. Remedy : by action on the cafe, Epitomil for quod fervitium amijht; for damages.

## Sect. IX. Of Injuries to Perfonal Property.

(1.) Injuries to the rights of property are either to thole of perfunal or real property.
(2.) Perfonal property is either in poffefion or in action.
(3.) Injuries to perfonal propetty in polfeffion are, 1. By difpeftfion. 2. By damage, while the owner remains in pollefion.
(4.) Di/foolfifion may be effected, i. By an unlawful taking. 2. By an unlawful cletaning.
(5.) For the unlawful taking of goods and chattels perfonal, the remedy is, 1. Actual rellitution, which (in cafe of a wrongful diffrefs) is obtained by action of replevin. 3. Satisfaction in damages: $1 /$, in cafe of refcous, by action of refours, poundbreach, or on the cale; 2 dhly, in cale of other unlauful takings, by action of trefpals or trover.
(6.) For the unlawful detaining of goods lawfully taken, the remedy is alfo, 1. Actual reltitution; by action of replevin or detinue. 2. Satisfaction in damages; by action on the cafe, for trover and converfion.
(7.) For damage to perfonal property, while in the ownet's poffeffion, the remedy is in damages; by action of trefpals viet armis, in cafe the act be immediately injurious; or by action of trefpafs on the cafe, to redrefs confequential damage.
(8.) Injuries to perfonal property, in affion, arife by breach of contracts, 1. Exprefs. 2. Implied.
(9.) Breaches of exprefs contracts are, 1. By nomperformance of debes. Remedy: $1 / /$, Specific payment recoverable by action of debt. 2dy, Damages for nonpayment ; recoverable by action on the cafe. 2 . By nomperformance of cozerants. Remedy: by action of covenant, $1 / /$, to recover damaryes, in covenants perfonal; $2 d / y$, to compel performance, in covenants real. 3. By monperformance of promifes, or affumbfits. Remedy : by action on the cale; for damages.
(10) Implied contracts are fuch as arife, 1. From the nature and conllitution of government. 2. From reafon and the conftruction of law.
(11.) Breaches of contracts, implied in the nature of government, are by the norpayment of money which the larss have directed to be paid. Kemedy : by action of debt (which, in fuch cafes is frequently a popular frequently a qui tam action); to compel the ipecific payment;-or, fumetimes, by action on the cafe; for damages.
(12.) Breaches of contracts, implied in reaform and cunifruction of law, are by the nonperformance of legal prefumptive afumpfils: for which the remedy is in damages; by an action on the cafe on the implied of. fumpfits, I. Of a quantume meruit. 2. Of a quantum salebat. 3. Of money expended for anuther. 4. Of receiving money to another's ule. 5. Of an infinual computaffert, on an account flated (the remedy on an account uniflated being by acion of account). 6. Of performins one"s duty, in any employment, with integrity, diligence, and Akill. In Some of which cafes

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## Sect. X. Of Injuries th Real Property; and, firf, of Difpolfefion, or Oufler, of ithe Freehold.

civ. (1.) Injurics affeßing real property are, 1. O:IRer, 2. Irefpafs. 3. Nuifances. 4. Wafle. 5. Subraction. 6. Diflurbance.
(2.) Orfler is the amotion of poffeffion; and is, I. Fiom fiecholds. 2. From chattels rea!.
(3.) Oulter from frecholds is effected by, 1. Alatemer:. 2. Intrufion. 3. Difigim. 4. Difcontinuance. 5. Deforcement.
(4.) Abatement is the entry of a ftranger, after the dea.h of the anceftor, before the heir.
(5.) Intrnfion is the entry of a franger, after a particular eftate of freehold is determined, before him in remainder or reverfion.
(6.) Diffeifu is a wrongful putting out of him that is feiled of the freehold.
(7.) Difcontinuance is where tenant in tail, or the hubband of tenant in fee, makes a larger eftate of the land than the law alloweth.
(8.) Deforcement is any other detainer of the freehold from him that hath the property, but who never had the poffeffion.
(9.) The univerfal remely for all the fe is reflitation or delivery of poffeffion; and, fometimes, damages for the detention. This is effected, 1 . By mere entry. 2. By ation paffiffory. 3. By writ of right.
(10.) Mere cnitry, on lards, by him who hath the apparen:t right of polfeftion, will (if peaceable) dive!t the mare poffefion of a wrongdoer. But forcible entries are remedied by immediate reftitution, to be given by a juttice of the peace.
(II.) Where the wrongdoer hath not only mere poffelli,n, but alfo an apparent right of poffelfion, this may be divelted by him who hath the actual right of potielition, by means of the poffilfory actions of zurit of entry or affize.
(12.) A writ of entry is a real action, which difproves the title of the tenant, by thowing the unlawful means under which he gaincd or continues poffelfion. And it may be brought either againt the wrongloer himfelf, or in the degrees called the per, the fer and cui, and the poll.
(13.) An cirize is a real action, which proves the title of the demandart, by fhowing his own or his anceltor's polteffion. And it may be brought either to remedy abatements; viz. the allize of mort diancefor, \& c.: Or to remedy recent difieifins; viz. the allize of novel difeifen.
(14) Where the wrongdoer hath gained the actual
rigit ot mffifion, he who hath the right of property can only be remedied by a writ of right, or fome writ of a fmilar nature. $\Lambda s$, 1 . Where fuch right of polfeffin is gainea by the difcontinuance of tenant is tail. Remedv, for the right of property: by writ of formidon. 2. W'here gained by recovery in a poffellory action, had againt tenants of particular eflates by their own default. Remedy : ay writ of quod ei deforceet. 3. Where gained by recuecry in a poffeffory action, had upon the incri:s. F I? liere gained by the Aatuse of limitations.

Remedy, in both cafes: by a mere writ of right, the ligheft writ in the law.

Sect. XI. Of Difpol/efforn, or Oufler, of Chattels real.

(1.) Oufter from challels real is, 1. From eftaics by fature and elegit. 2. From an eltate for years.
(2.) Oufter from eflates by Ratuse or elegi!, is effected by a kind of diffeifn. Remedy : reftitution, and damages; by affize of nozel diffeifin.
(3.) Oufter from an eftate for ycars, is effected by a like difleilin, or ejectment. Remedy: rellimion, and damages, 1. By writ of ejectione firmce. 1. By writ of quare ejecil infia tominum.
(4.) A writ of ejectione firme, or action of irefpals in eje:lment, lieth where lands, \&e. are let for a ierm of years, and the leffee is oulted or ejected from his term; in which cafe he flall recover poffeflion of his tcrm, and damages.
(5.) Tlis is now the ufual method of trying titles to land, inftead of an action real: viz. By t. The claimant's making an ačual (wr fuppofed) leale upon the land to the plaintiff. 2. The plaintif's actual (or fuppofed) entry thereupon. 3. His actual (or fuppofed) outter and ejectment by the defendant. For which injury this action is brought either againft the tenant, or (more ufually) againtl fome cafual or fictitious ejector; in whofe thead the tenant may be admitted defendant, on condition that the leafe, entry, and oufter, be confelled, and that nothing elfe be difputed but the merits of the title claimed by the leflor of the plaintiff.
(6.) A writ of quare ejecil infra terminum is an action of a fimilar nature; only not brought againlt the wrongdoer or ejecter himfelf, but fuch as are in poffeflion urder his title.

## Sect. XII. Of Trefpafs.

Trefpals is an entry upon, and damage done to, another's lands, by one's felf, or one's cattle; without any lawful authority, or caufe of juflification: which is called a breach of his clofs. Remedy: daniages; by action of trefpafs, guare claufum fregit; befides that of ditrefs, damage fealant. But, unlefs the title to the land came chiefly in queftion, or the trefpafs was wilful or malicious, the plaintiff (if the damages be under forty fhillings) thall recover no more colts than daraages.

## Sect. XIII. Of N゙uifance.

(i.) Nuifance, or annoyance, is any thing that. worketh damage or inconvensence: and it is either a public and common nuifance, of which in the next chaptor; or, a pritate nuifance, which is any thing done to the hurt or anmoyance of, 1. The corporeal; 2. The incorporeal, liereditaments of another.
(2.) The remedies for a private nuifarce (befides that of abatement) arc, 1. Danages; by action on the cafe; (which alfo lies for fuccial prejudice by : public muifuce). 2. Removal thereof, and damaces; by alize of nuifance. 3. Like removal, a: d damajes; by 1 nit of ${ }^{2}$ uod permitat propernere.

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Epitomifed.

## Sect. XIV. Of Wafte.

(1.) Wafe is a fpoil and defruction i:a lands and tenemenss, to the injury of him who hath, I. An immediate interen! (as, by right of common) in the lands. $=$. The remainder of revertion of the inheritance.
(2.) The remedies, for a commoner, are refitution, ard damages; by afize of common: O: damages only; by action on the cafe.
(3.) The remedy, for him in remainder, or reverfion, is, \&. Preventive: by writ of cfrepement at law, or injun aso out of chancery ; to ftay walte. 2. Corrective : by action of wafte; to recover the place watted, and damages.

## Evcr. XV. Of Subtration.

(I.) Sultracion is when one, who owes fervices to another, withdraws or negle\&s to perform then. This may be, 1. Of rent, and other fervices, due by temure. 2. Of thote due by cufom.
(2.) For fubtraction of rents and fervices, due by lenure, the remedy is, i. By diftrefs; to compel the payment or performance. 2. By action of delt. 3. Py afize. 4. By writ de confuetudimibus et forvitiis; -to compel the papment. 5. By writ of ceffavit; and, 6 . Py writ of right fur difclaimer;-io recover the land itfelf.
(3.) To remedy the oppreffion of the land, the law has alfo tiven, i. The writ of Ne imjufiè vexes: 2. The writ of mefnc.
(t.) For fubtraction of fervices, due by cuffom, the remedy is, I. By writ of Secta ad molendinum, furnum forrale, \&x. to compel the performance, and recover damages. 2. By action on the cafe; for daraages only.

## Sect. XVI. Of Dijfurbance.

(I.) Difturbance is the lindering, or diffuieting, the owners of an incorporeal hereditament, in their regular and lawful enjoyment of it.
(2.) Dillurbances are, 1. Of franchifes. 2. $\mathrm{O}^{8}$ commons. 3. Of sways. 4. Of tcnure. 5. Of patronage.
(3.) Difurbance of franchifes is remedied by a fpecial action on the cafes; for damages.
(4.) Dilturoance of common, is, 1 . Intercommoning whout right. Remedy: damage; by an action of the cale, or of trefpafs: befides diftrefs, damage feafant; to compel fatifation. 2. Surcharying the common. Renedies: diffrefs, dumage feafant; to compel fatistaction: action on the cale; for damages: or, writ of admeafurement of palture; to apportion the common. and writ de focindid fuperoneratione; for the fupcriumerary cattle, and damages. 3 Enclofure, or oblfrution. Remedies: reftitution of the common and damages ; by allize of novel diffe:fin, and by writ of givel admithat: or, damages only; by action on the cal:
is) Dillurbarce of ways, is the obftruction, I. Of a wing ir: grot, by the owner of the land. 2. Of a way appendat, ty a Atranger. Remedy, for both: damages: Ly action on the care.
(6.) Difturbance of texurt, by driving atray te- Law mants, is remedied by a fpectal action on the cafe; for Engla damages.
(7.) Difturlance of patronage, is the hinderance of a patron to prefent his cletk to a bencfice; whereof ufurpation, within fix monehs is now become a fpecies.
(8.) Difturbers may be, i. The pfeudo-pation, by bis wrongful prefentation. 2. H:s clerk, by demanding inflitution. 3 . The ordinary, by refuling the clerk of the true patron.
(9.) The remedies are, I. By afize of darrein prefentnent; 2. By writ of quare impedit ;-to compel inIlitution and recover damages: Confequent to which are the writs of quare incumbravit, and quare non admiflt; for fubfequent damages. 3. By writ of right of advowfon; to compel inftitution, or eltablifh the permanent right.

Sect. XVII. Of Injuries Proceeding from, or Affiting, the Crown.
(1.) Injuries to which the crown is a party are, 1. Where the crown is the aggreflor. 2. Where the crown is the fufferer.
(2.) The crown is the aggrefor, whenever it is in poffieftion of any property to which the fubject hath a right.
(3.) This is remedied, 1. By petition of right; where the right is grounded on facts difclofed in the petition itfelf 2 . By monflans de droit, where the claim is grounded on facts, alteady appearing on record. The effect of both which is to remove the hands (or pofieffion) of the king.
(4.) Where the crown is the fufferer, the king's remedies are, 1. By fuch common law actions as are confilitent with the royal dignity. 2. By inqueft of ofice, to recover pofferion: which, when found, gives the king his right by folemn matter of record; but may afterwards be traverfed by the fubject. 3. By writ of fcirc fucias, to repeal the king's patent or grant. 4. By information of intrufion, to give damages for any trefpafs on the lands of the crown; or of debt, to recover moneys due upon contract, or forfeited by the breach of any penal flatute; or fometimes (in the latter cafe) by information in renz: all filed in the exchenuer $e x$ officio by the king's attorney general. 5. By writ of quo warranto, or information in the nature of fuch writ ; to feife into the king's hands any franchife wfurped by the fu! jeet, or to ouft an ufurper from any public office. 6. By writ of mandamus, unlefs caufe; to admit or reftore any perfon entitled to a franchife or office: to which, if a falle caule be returned, the remedy is by traverfe, or by action on the cafe for damages; and, in confequence, a peremptory mandamus, or writ of reflitution.
S.:ct. Xvili. Of the Purfitit of Remedics by Action;
and, Firf, of the Original Writ.
(1.) The purfuit of the feveral remedies furnifhed by the laws of England, is, I. By action in the courts of common law. 2. By proccedings in the courts of squily.
(2.) Ot an action in the court of comnton pleas (originally.
ginally the proper court for profecuting civil fuits) the orderly parts, are, i. The original writ. 2. The procefs. 3. The pleadings. 4. The iflue or demurrer. 5. The trial. 6. The judgement. 7. The proceedings in nature of appent. 8. The execution.
(3.) The origina/ writ is the beginning or foundation of a fuit, and is either cptional (called a preceipe), commanding the defendant to do fomething in certain, or ntherwife frow caule to the contrary; or peremptory (called a $\sqrt{\imath}$ fecerit te fecurumn), commanding, upon fecurity given by the plaintiff, the defendant to appear in court, to how wherefore he hath injured the plaintiff: both iffuing out of chancery under the king's great fcal, and returnable in bank during term time.

## Sect. XlX. Of Procefs.

(1.) Procefs is the means of compclling the defendant to appear in court.
(2.) This includes, 3. Summons. 2. The writ of attachment, or mer which is fometimes the firf or original procefs. 3. The writ of diftringas, or diftefs infinite. 4. The writs of copias adrefpondendum, and toAatum crpias: or, intead of thefe, in the king's beach, the bill of Middlefex, and writ of latitat:-and, in the exchequer, the writ of quo minis. 5. The alias and pluries writs. 6. The exigent, or writ of exigi facins, proclanations, and outlawry. 7 . Appearance, and common bail. 8. The arrei'. 9. S.escial bail, firt to the fheriff, and then to the action.

## Sect. XX. Of Pleadings.

esiy.
Pleadings are the mutual altercations of the plain. tiff and defendant in writing; under which are comprifed, 1. The declaration of court ; (wherein, incidentally, of the vifue, nonfuit, retraxit, and difcontinuance.) 2. The defence, claim of cognizance, imparlance, view, oyer, aid-prayer, voucher, or age. 3. The plea; which is either a dilatory plea ( $1 / t$, to the jurifdiction; $2 d / y$, in difability of the plaintiff; ${ }_{3} d$ ly, in abatement), or it is a plea to the action; fometimes confeffing the action either in whole or in part ; (wherein of a leuder, paying money into court, and fet off): but ufually denying the consplaint, by pleading cither, $1 / f$, the gene:al iffue : or, $2 d / y$, a lpecial bar (wherein of juftifications, the llatutes of limitation, \&zc.) 4. Replication, rejoinder, furrejoinder, rebutter, furrebutter, \&c. Tharein of eftoppels, colour, duplicity, departure, new afignment, piuteltation, averment, aid other incidents of pleading.

## Sect. XXI. Of Ifine and Demarrer.

(1.) Inue is where the parties, in a courfe of plendings, come to a point affirmed on ore fide and denied on the other ; which, if it be a matter of law, is called a demurver; if it be a matter of fact, !ill it retains the name of an illue, of fack.
(2.) Cortinuance is the detaining of the parties in court from time to time, by giving them a day certain to appear upon. And, if any new matter arifes fince the laft continuance or adjournment, the difendant may take advantage of it, even afier demurrer or ifue, by alledging it in a plea fuis darrein comtinuance.
(3.) The determination in an iffue of law, or de- Law of murrer, is by the opinion of the judges of the coust England which is afterwards entered on record.

Epitamifed.

## Sect. XXII. Of the Several Spacies of Trial.

(1.) Trial is the examination of the matter of fact put in iffue.
(2.) The fpecies of trial are, 1. By the neord. 2. By infpection. 3. By cerificate. 4. By witneffes. 5. By suager of battel. 6. By wager of law. 7. By jury.
(3.) Trial by the record is had, when the exiftence of fuch record is the point in iffue.
(4.) Trial by infpection or examination is had by the court, principally when the matter in iffue is the evident object of the fenfes.
(5.) Trial by cerificate is had in thole cales, where fuch certificate mult have been conclufive to a jury.
(6.) Trial by witmeffes (tine regular method in the civil law) is only ufed on a writ of dower, when the death of the hufband is in iffue.
(7.) 'Trial by uager of battel, in civil cafes, is only had on a writ of right; but, in lieu thereof, the tenant may have at his option, the trial by the grand afize.
(8.) Trial by wager of law is only had, where the matter in iliue may be fuppofed to have been privily tranfacted between the parties themfelves, without the intervention of other witnefics.

## Sect. XXIII. Of the Trial by Jury.

(1.) Trial by jury is, 1. Exiraordinary; as, by the grand aflize, in writs of right; and by the grand jury, in writs of attaint. 2. Ordinnry.
(2.) The method and procefs of the ordinary trial by jury is, 1. The writ of venire facias to the theriff, coroners, or elifors; with the fubfequent compulfive procefs of habeas corpora, or diflingas. 2. The carrying down of the record to the court of $n i / 2$ prius. 3. The Cheriff's setum; or panel of, ift, Cpecial ; 2dly, common jurors. 4. The challenges; 1 ft , to the array; sdly, to the polls of the jurors; either propter honoris refpectum, propter defectum, fropter affectum, (which is fometimes a principal challenge, fometimes to the favour), or propter delictums. 5. The tales de circumflausilus. 6. The oath of the jury. 7. The evidence; which is either by proofs, 1tt, written; adly, pa:ole :-or, by the private knowledge of the juro:s. 6. The verdiet; which may be, Ift, privy; 2 d ? y , public; 3 dly, fpecial.

## Sect. XXIT. Of Yudgement and its Incidents.

(1.) Whatever is tranfacted at the trial in the court of $n i / 2$ prius, is added to the record under the mame of a polfoa: confequent upon which is the judsement.
(2.) Judgement may be arreffed or ftayed for raules, t. Extrinfic, or dehors the record; as in the calc of new trials. 2. Intrinfic, or within it ; as where the declaration varics from the writ, or the verdiet from the pleadings, and isluc: or where the cafe, laid in the dcclaration, is not dufficient to fupport the action in point of law.
(3.) Where the iffuc is immateria! or iaff.ficient, the coust may arward a repleator.
cxviis.
(4.) Judgement is the fentence of the law, pronouneed by the court, upon the matter contained in the record.
(5.) Judgements are, I. Inteslocutory; which are incomplete till perfected by a wit of inquiry. 2. Final.
(6.) Cols, or expences of fuit, are now the necellary confequence of obtaining judgement.

Sect. XXV. Of Proccedings, in the Nature of Sppenls.
(1.) Proceedings, in the nature of appenis from judgenent, are, J. A writ of attaint; to impeach $\mathrm{tli}_{\mathrm{i}}$ verdict of a jury; which of late has been fuperfeded by new trials. 2. A wit of audita querela; to difcharge a judgement by matter that has fince happened. 3. A writ of error, from one court of record to another ; to corred judgemente, erroneous in point of law, and not helped by the flatutes of amendment and jeofails.
(2.) Writs of error lie, I. To the court of king's lench, from all inferior courts of record; from the court of common pleas at Weftminfter; and from the court of king's bench in Ireland, 2. To the courts of exchequer chamber, from the law fide of the courts of exchequer; and from proceedings in the court of $\mathrm{king}_{\mathrm{g}} \mathrm{s}$ bench by bill. 3. To the houfe of peers, from proceedings in the court of king's bench by original, and on writs of error; and from the feveral courts of exchequer chomber.

## Sect. XXVI. Of Execution.

Execution is the putting in force of the fentence or judgement of the law. Which is effected, I. Where poffeflion of any hereditament is recovered: by writ of hnbere facies feifinam, poffeffonem, doc. 2. Where any thing is awarded to be done or rendered, by a fpecial writ for that purpofe: as, by writ of abatement, in cafe of nuifance; retorna babcndo and capins in witheram, in replevin; diffingas and fcire focias, in detinue. 3. Where money only is recovered; by writ of, 1 tl , Capias ad fatisfaciendium, a gaintt the body of the defendant ; or in default thereof, foire facins againft his bail. 2dly, Fieri facias, againft his goods and chattels. 3 dly, Levari fncias, againft his goods and the profits of his lands. 4thly, Elegit, againt his goods, and the pafe:ffion of his lands. 5thly, Extendi focias, and other procefs, on ftatutes, recognizances, \&xc. againft his body, lands, and goods.

SLcT. XXVII. Of Proceedings in the Courts of Equity.
(1.) Matters of equity which belong to the peculiar juridiction of the court of chancery, are, 1. The guardianflip of infants. 2. The cuftody of idiots and lunatics. 3. The fuperintendance of charities. $4 . \mathrm{Com}-$ mifions of bankrupt.
(2.) The court of exchequer and the duchy court of Lancafer, have alfo fome peculiar caufes, in which the intereft of the king is more immediately concented.
(3.) Equity is the true fenfe and found interpretation of the rules of law; and, as fuch, is cqually attended to by the judges of the courts both of common law and equity.
(4). The effential differences, whereby the Engligh Lany comits of equity are diftinguifled from the cousts of lart, Lingis are, 1 . The mode of proof, by a difcovery on the oatli of the party; which gives a jurifdiction in matters of account, and fraud. 2. The mode of trinl; by depofitions taken in any part of the world. 3. The mode of religf; by giviig a more lpecific and extenfive remedy than can be had in the courts of law ; as, by carrying agreenents into execumion, flaying wafle or other injuries by injunction, directing the fale of encumbered lands, \&zc. 4. 'The true confluction of fecurities for movey, by contidering them mercly as a pledge. 5. The execution of truffs, or fecond ufes, in a manner analogous to the law of legal eftates.
(5). The proceedings in the court of chancery (to which thofe in the exchequer, \&zc. very nearly contorin) are, 1. Bill. 2. Writ of fibporina; and, perbaps, injunction. 3. Procefs of contempt ; viz. (ordinarily) attacliment, aitachment with proclamations, commilfion of rebellion, ferjeant at arms, and fequeftrations. 4. Appearance. 5. Demurrer. 6. Plea. 7. Anfwer. 8. Exceptions; amendments; crofs, or fupplemental, bills; bills of revivor, interpleader, \&x. 9. Replication. 10. Iffuc. II. Depofitions, taken upon interrogatories; and fubfequent publication thereof. 12. Hearing. 13 . Interlocutory decree; feigned ifiue, and trial ; reference to the mafter, and report; \&c. 4 . Final decree. 15. Rehearing, or bill of review. 16. Appeal to parliament.

## Chap. IV. Of Public Wrongs.

S上ct. I. Of the Nature of Crimes, and their Punij?. ment.
(1.) IN treating of public wrongs may be confidercd, 1. The general nature of crimes and punifhments. 2. The perfons capable of committing crimes. 3. Their feveral degrees of guilt. 4. The feveral fpecies of crimes, and their refpective punifhments. 5. The means of prevention. 6. The method of punifliment.
(2.) A crime, or mifdemesnor, is an act committed, or omitted, in violation of a public law either forbidding or commanding it.
(3.) Crimes are diltinguibled from civil injuries, in that they are a breach and violation of the public rights, due to the whole community, confidered as a community.
(4.) Punifbments may be confidered with regard to, 1. 'The powcr; 2. The end; 3. The meafure;-of their infliction.
(5.) The power, or right, of inflicting human punifhments for natural crimes, or fuch as are mala in fe, was by the lasw of nature relled in every individual : but, by the fundamental contract of fociety, is now transferred to the fovereisn power ; in which alfo is vefted, by the fame contract, the right of punifhing pofitive offences, or fuch as are mola prolulitia.
(6.) The end of human puniflunents is to prevent future uffences; J. By amending the offender himfelf. 2. By deterring others through his example. 3. By depriving him of the power to do future mifchief.
(7.) The neeffure of human punifhments mult be determined by the wifdom of the fovereign power, and
not by any uniforma univenalal rule: though that wifdom may be tegulated, and alfifted, by certain general, equitable, principles.

## Sect. II. Of the Porfons capable of Committing Crimes.

(1.) All perfons are capable of committing crimes, unlefs there be in them a defect of will: for, to conftitute a legal crime, there mult be both a vitious will, and a vitious act.
(2.) The will does not concur with the act, 1. Where there is a defeet of underfonding. 2. Where no will is exerted. 3. Where the act is conflrained by force and violence.
(3.) A vitious will may therefore be wanting, in the cafes of, 1. Infancy. 2. Idiocy, or lunacy. 3. Drunkennefs; which doth not, however, excufe. 4. Misfortune. 5. İnorance, or miftake of fact. 6. Compulfiot, or neceffity; which is, ift, that of civil fubjection; 2dly, that of durefs per minas; 3 dly, that of choofing the lealt pernicious of two evils, where one is unavoicable; $4^{\text {thly }}$, that of want, or hunger; which is no legitimate excufe.
(4.) The king, from his excellence and dignity, is aldo incapable of doing wrong.

## Sect. III. Of Principals and Accofories.

(1.) The different degrees of guilt in criminals are, 1. As principals. 2. As acceffories.
(2.) A principal in a crime is, 1. He who commits the fact. 2. He who is prefent at, aiding, and abetting, the commiffion.
(3.) An acceffory is he who doth not cormmit the fact, nor is prefent at the commilfion; but is in fome fort concerned therein, either before or afier.
(4.) Acceffories can only be in petit treafon, and feluny : in high treafon, and mifdemeanors, all are principals.
(5.) An acceflory, before the fact, is one who, being ablent when the crime is committed, hath procured, counfelled, or commanded, another to commit it.
(6.) An acceffory after the fact, is where a perion, knowing a felony to have been committed, receives, relieves, comforts, or affifts, the felon. Such acceffory is ufually entitled to the benefit of clergy ; where the principal, and acceffory before the fact, are excluded from it.

## SECT. IV. Of Offences ngainf God and Religion.

Ezxvi. (1.) Crimes and mifdemeanors cognizable by the laws of England are fuch as more immediately offend, 1. Gon, and his loly religion. 2. The law of nations. 3. The king, and his governmont. 4. The public, or commonuealth. 5. Individuals.
(2.) Crimes more immediately offending Gon and religion are, 1. Apoflacy. For which the penalty is incapacity, and imprifonment. 2. Herc/y. Penalty, for one fpecies thereof: the fame. 3. Offences againft the eftablifhed church :-Either, by reviling its ordinances. Penalties: line; deprivation; imprifonment; forfeiture.-Or, by nonconformity to its morfhip;

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1f, Through tatal irreligion. Penally: fine 2dly, Through Proteftant difersing. Penaley: fuffended by England the toleration act. 3dly, 'Through Posery, either in Epitomifer? profellors of the popilh religion, popith reculants, convict, or popilh priefls. Penaltics: incapacity; double taxes; imprifonment ; fincs; forfcitures; abjuration of the realm; judgement of felony, without clergy; and judgement of high treaton. 4. Blafphemy. Penalty: tine, imprifonment, and corporal punilhment. 5. Profane fuenring and curfing. Penalty: fine, or houfe of correction. 6. Witcheraft; or, at leatt, the pretence thereto. Penalty: impritonment, and pillory. 7. Religious impoflures. Penalty: fine, imprifonment, and corporal punifment. 8. Simomy. Penalties: forfeiture of double value; incapacity. 9. Sabbath-breaking. Penalty: fine. 10. Drunkerncfs. Penalty: fine or ftocks. 11. Lewdnefs. Pcnalties: fine; imprifonment; houle of correction.

## Sect. V. Of Offences againf the Law of Nations:

(土.) The law of mations is a fyltem of rules, deducible by natural reafon, and eftablifhed by univerfa! confent, to regulate the intercourfe between indepersdent flates.
(2.) In England, the law of mations is adopted in its full extent, as part of the law of the land.
(3.) Offences againet this law are principally incim dent to whole fates or nations; but, when committed by private fubjects, are then the objects of the municipal law.
(4.) Crimes againlt the law of mations, animadverte on by the laws of England, are, 1. Violation of fafe ronducts. 2. Infringement of the rights of embrffadors. Penalty, in both: arbitrary. 3. Pirncy. Penalty: judgement of felony, without clergy.

## Sect. VI. Of High Treajon:

(i.) Crimes and mifdemeanors more peculiarly of ferding the ling and his government are, 1. Hightreafon. 2. Felonies injurious to the prerogative. 3. Priemunire. 4. Other mifprifiots and cotilemp!s.
(2.) High sreafort may, according to the fatute of Edward III. be commited, 1, By compafing or imagining the death of the king, or queen-confort, or their eldeft fon and heir: demonftrated by fome overt act. 2. By violating the king's companion, his eldeft daughter, or the wife of his eldelt fon. 3. By fome overt act of levying war againft the king in his realm. 4. By adherence to the king's enemies. 5. By cunnterfeiting the king's great or privy fonl. 6. By counterfeiting the king's money, or importing counterfeit money. 7. By killing the chancellor, treafurer, or king's juftices, in the execution of their offices.
(3.) High trenfons, created by fubfequent flatutes, are fuch as relate, 1. To Papifs: as, the repeated defence of the pope's juriddiction; the coming from beyond fea of a natural born popilh prieft; the rencuncing of allegiance, and reconciliation to the pope or other foreign power. 2. To the coinage, or other fignatures of the king: as, counterfeiting (or, importting and uttering counterfeit) foreign coin, here current; forging the fign-manual, privy fignet, or privy feal; falifying, \&c. the current coin. 3. To the

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Law of Protcfant fuccefron; as, correfponding with, or remit lingland ting to, the late Pretender's fons; endeavouring to $\underbrace{\text { Epitcmifd }}$ impede the fucceffion; writing or printing in defence of any pretender's title, or in derogation of the act of fettlement, or of the power of palliament to limit the defcent of the crown.
(4.) The puniffment of high treafon, in males, is (gencrally) to be, I. Drawn. 2. Hanged. 3. Embowel. led alive. 4. Beheaded. 5. Quartered. 6. The head and quarters to be at the king's difpofal. But, in treafons relating to the coin, only to be drawn, and hanged till dead. Females, in both cales, are to be drawn, and burned alive.

Sect. VII. Of Felonies injurious to the King's Prerogative.
exsis.
(t.) Felony is that offence which occafions the total forfeiture of lands or goods, at common law; now ufually alfo punifhable with death, by hanging; unlefs through the benefit of clergy.
(2.) Felonies injurious to the king's prerogative (of which fome are within, others without clergy) are, 1. Such as relate to the coin: as, the wilful uttering of counterfeit money, \&c.; (to which head fome inferior mifdemeanors affecting the coinage may be alfo referred). 2. Confpiring or attempting to kill a privy counfellor. 3. Serving foreign fates, or inlifting foldiers for foreign fervice. 4. Embezzling the king's armour or forcs. 5. Defertion from the king's armics by land or fea.

## Sect. VIII. Of Pramunire.

cxas.
(1.) Præmunire, in its original fenfe, is the offence of adhering to the temporal power of the pope, in derogation of the regal authority. Penalty: outlawry, forfeiture, and imprifonment : which hath fince been extended to fome offences of a different nature.
(2.) Among thefe are, 1. Importing Popifh trinkets. 2. Contributing to the maintenance of Popifh feminaries abroad, or Popifh priefts in England. 3. Molefting the poffeffors of abbey lands. 4. Acting as broker in an ufurious contract, for more than ten per cent. 5. Obtaining any fay of proceedings in fuits for monopolics. 6. Obtaining an exclufive patent for gunpowder or arms. '7. Exertion of purveyance or pre-emption. 8. Afferting a legiflative authority in both or either houfe of parliament. 9. Sending any fubject a prifoner beyond fea. 10 . Refufing the oaths of allegiance and fupremacy. 11. Preaching, teaching, or advifed fpeaking, in defence of the right of any pretender to the crown, or in derogation of the power of parliament to limit the fucceffion. 12. Treating of other matters by the affembly of peers of Scotland, convened for electing their reprefentatives in parliament. I3. Unwarrantable undertakings by unlawful fubferiptions to public funds.

## SEct. IX. Of Mifprifions and Contempts affecting the King and Government.

cxxxi. (1.) Mifprifions and contempes are all fuch higly offences as are under the degree of capital.
(2.) Thefe are, 1. Negative, in concealing what ought
W.
to be revealed. 2. Fofitive, in committing what ought not to be done.
(3.) Negative mifprifions are, 1. Mifprifion of treafor. Penalty: forfeiture and imprifonment. 2. Mifpifion of felony. Penalty : fine and imprifonment. 3. Concealment of treafiure trove. Penalty: fuse and imprifonment.
(4.) Pofitive mifprifions or high mifdemeanors and contempts, are, т. Mal-adminifiration of public trufts, which includes the crime of peculation. Ufual penalties: banillment; fines; imprifonment; difability. 2. Contempts againft the king's prerogative. Penalty: fine, and imprifonment. 3. Contempt againft his perfon and goverument. Penalty: fine, imprifomment, and infamous corporal punifhment. 4. Contempts againft his title. Penalties: fine, and imprifonment; or fine, and difability. 5. Contempts againft his palaces, or courts of juftice. Penalties: fine; imprifonment; corporal punifhment; lofs of right hand; forfeiture.

## Sect. X. Of Offences againft Pu:blic Y̌uftice.

(1.) Crimcs efpecially affecting the commonwealth are offences, 1. Againt the public juflice. 2. Againf the public peace. 3. Againt the public tradc. 4. Againft the public healih. 5. Againt the public police or cconomy.
(2.) Offences againft the public jufice, are, I. Embezzling or tacating records, and perfonatiug $p$ thers in courts of juftice. Penalty : judgement of felony, ufually without clergy. 2. Compelling prifoners to become approvers. Penalty: judgement of felony. 3. Obftructing the execution of procefs. 4. Efcapes. 5. Breach of prifon. 6. Refcue. Which four may (according to the circumfances) be either felonies, or mifdemeanors punifhable by fine and imprifonment. 7. Returning from tranfportation. - This is felony, without clergy. 8. Taking rewards to help one to his ftolen goods. Penalty : the fame as for the theft. 9. Receiving flolen goods. Penalties: tranfportation; fine; and imprifonment.-10. Theftbote. In. Common barretry and fuing in a feigned name. 12. Maintcnance. 13. Champerty. Penalty, in thefe four : fine, and imprifonment. 14. Compounding profecutions on penal ftatutes. Penalty: fine, pillory, and difability. 15 . Confpiracy; and threats of accufation in order to extort money, \&c. Penalties : the villanous judgement; fine; imprifonment ; pillory; whipping, tranfportation. 16. Perjury, and fubornation thercof. Penalties: infamy; imprifonment; fine, or pillory; and, fometimes, tranfportation or houfe of correction. 17. Bribery. Penalty: fine, and imprifonment. 18. Embracery. Penalty: infamy, fine, and imprifonment. 19. Falfequedict. Penalty : the judgement in attaint. 20. Negligence of public officers, \&c. Penalty : fine, and forfeiture of the office. 21. Oppreffron by magiftrates. 22. Extortion of officers. Penalty, in both: imprifonment, fine, and fometimes forfeiture of the office.

## Sect. XI. Of Offences againft the Public Pcace.

Offences againft the public peace, are, 1. Riotous caxxiif. affemblies to the number of treblie. 2. Appearing
armed,

Law of armed, or hunting in dijguif: 3. Threatening, or deEngland manding any valuable thing by letter.-All thefe are jitumiled. Felonies, without clergy. 4. Deftroying of curnpikes, \&c. Penalties: whipping; inıprilonment; judgement of felony, with and without clergy. 5. Affrays. 6. Kiots, routs, and unlawful affemblies. 7. Tumultuous petilioning. 8. Forcible entry, and detainer. Penalty, in all four: fine, and imprifonment. 9. Going unufually armed. Penalty: forfeiture of arms, and imprifonment. 10. Spreading falfe news. Penalty: fine, and imprifonment. 11. Pretended prophecies. Yenalties: fine ; imprifonmerit ; and forfeiture. 12. Chnllenges to fight. Penalty: fine, imprifonment, and fometimes forfeiture. 13. Libels. Penalty: fine, imprifonment, and corporal punilhment.

## Sect. XII. Of Offences againf Public Trade.

Offences againt the public trade, are, 1. Owling. Penalties: fine; forfeiture; imprifonment, lofs of left hand; tranfportation ; judgement of felony. 2. Smuggling. Penalties: fines; lofs of goods; judgement of felony, without clergy. 3. Fraudulent bankruptey. Penalty: judgement of felony without clergy. 4. Ufury. Penalty : fine, and imprifonment. 5. Chenting. Penalties: fine; ${ }^{2}$ imprifonment; pillory; tnmbrel; whipping, or other corporal punilhment, tranfportation. 6. Foreflaling. 7. Regrating. 8. Engrofing. Penalties, for all three: lofs of goods; fine; imprifonment; pillory. 9. Monopolies and combinations to raile the price of commodities. Penalties: fines; imprifonment ; pillory; lofs of ear ; infamy; and, fometimes the pains of prommuire. 10. Exercifing a trade, not having lerved as an apprentice. Penalty: fine. 11. Tranforting, or refiding abroad of artificers. Penalties: fine; imprifonment; forfeiture; incapacity; becoming aliens.

Sect. XIII. Of Offences againf the Public Health, and Public Police or Econorny.
(1.) Offences againft the public health, are, I. Irregularity, in the time of the plague, or of quarantine. Penalties: whipping; judgement of felony, with and without clergy. 2. Selling unwholefonue provifions. Penalties: amercement; pillory; fine; imprifonment; abjuration of the town.
(2.) Offences againit the public police and economy or domeftic order of the kingdom, are, 1. Thofe relating to clandeffine and irregular marringes. Penaltics: judgement of felony, with and without clergy. 2. Bigamy, or (more properly) polygamy. Penally: judgement of felony. 3. Wandering, by foldiers or mariners. 4. Remaining in England, by Egyptians; or being in their fellowfhip one month. Buth thefe are felonies, without clergy. 3. Common nuifances, Ift, Py annoyances or purpreitures in highways, bridges, and rivers; 2dly, By offenfive trades and manufactures; 3 dly, By diforderly houles; $4^{\text {thly, By lotteries; } 5 \text { thly, }}$ By cottages; 6thly, By fireworks; 7thly, By evefdropping. Penalty : in all enne. 8thly, Py common frolding. Penaity : the cucking ftool. 6. Idlenefs, diforder, qugrancy, and incorrigitle roguery. I'enalies: imprifonment; whipping; judgement of felony. 7. Iururury, in diet. Penalty, difcrctionary. 8. Gamering. Penalties:
to gentlemen, firie; to others, fine and imprifonment; to cheating gameflers, fine, infainy, and the corporal pains of perjury. 9. Deflroying the game. Penalties: fines, and corporal punilhment.

## Sect. XIV. Of Homicide.

(r.) Crimes efpecially affecting individuals, are, cexxyi. 1. Againt their perfons. 2. Againt their habitations. 3. Againt their property.
(2.) Crimes againft the perfons of individuals, are, 1. By homicicie, or deftroying life. 2. By other corporal injuries.
(3.) Homicide is, I. Juffifable. 2. Excufable. 3. Fic lonious.
(4.) Homicide is jufifiable. I. By neceffity, and command of law. 2. By permifition of law; rif, Fow the furtherance of public jullice; 2dly, For prevention of fome forcible felony.
(5.) Homicide is excufable. 1. Per infortunium, or by mifadventure. 2. Se defendendo or in felf-defence, by chance-medley. Penalty, in both: forfeiture of goods; which however is pardoned of courfe.
(6.) Felonious homicide is the killing of a human creature without juftification or excufe. This, is, I. Killing one's felf. 2. Killing another.
(7.) Killing one's Self, or Self-nuurder, is where one deliberately, or by any unlawful malicious act, puts an end to his own life. This is felony; punifhed by ignominious burial, and forfeiture of goods and chattels.
(8.) Killing anotber is, 1. Manfaughter. 2. Murder.
(9.) Manlaughter is the unlawful killing of another, without malice, exprefs or implied. This is either, 1. Voluntary, upon a fudden heat. 2. Involuntary, in the commifion of fome unlawful act. Both are fein the commifion of fome unlawful act. Both are fe-
lony, but within clergy ; except in the cafe of fabbing.
( $\mathbf{1 0}$.) Murder is when a perfon, of found memory and difcretion, unlawfully killeth any reafonable creaand difcretion, unlawfully killeth any reafonable crea-
ture, in bcing, and under the king's peace; with malice aforethought, either exprefs or implied. This is felony, without clergy; punihhed with fpeedy death, and hanging in chains, or diffection.
(11.) Petit treffon (being an aggravated degree of nourder) is where the fervant kills his mafter, the wife her hufband, or the ecclefiaftic his fuperior. Penalty:
in men, to be drawn and hanged; in women, to be her hufband, or the ecclefiaftic his fuperior. Penalty:
in men, to be drawn and hanged; in women, to be drawn and burned.

Crimes affecting the "orfons of individuals, by other corporal injuries not amounting to homicide, are, 1. Mayhem; and alfo hrocting at another. Penaltics: fine ; imprifonment ; judgement of felony, without clergy. 2. Yorcible abduction, and marringe or deflement, of an heirefs; which is felony: alfo, Acealing, and doo Aowering or marrying, any woman child under the age of fiveren years; for which the penalty is imprilonment, fine, and temporary forfeiture of her lands. 3. Rape, and alfo carnal knoweledge, of a yoman child under the age of ten years. 4. Buggery, with man or beall. Both there are felonies, without clergy. s. Aliantl. 6. Batsery; eficcially of clergymen. 7. IVounding. Penaltics, in all three: fine; inprifonnent; and other cor-
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## Sect. XV. Of Offences againft the Perfons of Indivi. duals.

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poral puniameat. 8. Falfe inprifument. Penalties: fine ; iraprifonment ; and (in fome atrocious cafes) the pains of preemuntre, and incaracity of office or pardon. 9. Kiönapping, or forcibly flealing away the king's fubjefts. Pealalty: fine; imprifoninent ; and pillory.

Sect. XVI. Of Offences arainft the Habitations of $I_{n-}$ dividuals.
c:umsiii.
(1.) Crimes, affecting the liabitations of individuals are, 1. Arfor. 2. Burglary.
(2.) Arfor is the malicious and wilful burning of the houfe, or out-houfe, of another man. This is felony: in fome cafes within, in others without, clergy.
(3.) Burglary is the breaking and entering, by night, into a manfion houfe : with intent to commit a felony. This is felony, without clergy.

## Sect. XVII. Of Offences againf Prizate Property.

(1.) Crimes affecting the private property of individuals are, 1. Larcing. 2. Malicious mijchief. 3. Forger
(2.) Larciny is, 3. Simple. 2. Mixed or compound.
(3.) Simple larciny is the felonious taking, and carxying away, of the perfonal goods of another. And it is, I. Grand larciny; being above the value of tivelve pence. Which is felony; in fome cafes within, in others without, clergy. 2. Peetit larciny; to the value of twclvepence or under. Which is allo felony, but not capital; being punifthed with whipping, or tranfportation.
(4.) Mixed, or compourd, larciny, is that wherein the taking is accompanied with the aggravation of being, I. From the houfe. 2. From the perfon.
(5.) Larcinies from the houff, by day or night, are felonies without clergy, when they are, I. Larcinies, above twelve pence, from a church; or by breaking a tent or booth in a market or fair, by day or night, the owner or his family being therein;-or by breaking a dwelling houfe by day, any perfon being therein ;-or from a dwelling boufe by day, without breaking, any perfon therein being put in fear;-or from a dwelling houfe by night, without breaking, the owner, or his family being therein and put in fear. 2. Larcinies, of five foillings, by breaking the dwelling boufe, thop, or warehoufe by day, though no perfon be therein;or, by privately flealing in any fhop, warehoufe, coachhoufe, or flable, by day or night, without breaking, and though no perfon be therein. 3. Larcinies, of forly fillings, from a dwelling houfe or its out-houfes, without breaking, and though no perfon be therein.
(6.) Larciny from the perfon is, 1. By privately Acaling, from the perfon of another, above the value of twelve pence. 2. By robbery; or the felonious and forcible taking, from the perfon of another, in or near the highway, goods or money of any value, by putting him in fear. Thefe are both felonies without clergy. An attempt to rob is alfo felony.
(7.) Malicious mifchief, by deftroying dykes, goods, cattle, fhips, garments, filh ponds, trees, woods, churches, chapels, meeting-houfes, houfes, out-houfes, corn, hay, ftraw, fea or river banks, hop-binds, coal-mines (or -7qimes thereunto belonging), or any fences for enclo.
fures by act of parliament, is felony; and, in moft cafes, without benefit of clergy.
(8.) Forgery is the fraudulent making or alteration of a writing, in prejudice of another's right. Penalties: fine; imprifonment; pillory; lofs of nofe and ears; forfeiture; judgement of felony, without clergy.

## Segt. XVIII. Of the Means of Preventing Offences.

(1.) Crimes and mifdemeanors may be prevented, by compelling fufpected perfons to give fecurity: which is effected by binding them in a conditional recognizance to the king, taken in court, or by a magifrate.
(2.) Thefe recognizances may be conditioned, I. To keep the peace. 2. To be of good hehaviour.
(3.) They may be taken by any juftice or confervator of the peace, at his own difcretion; or, at the requef of fuch as are entitled to demand the fame.
(4.) All perfons, who have given fufficient caufe to apprehend an intended breach of the peace, may be bound over to keep the peace; and all thofe, that be not of good fame, may be bound to the good behaviour ; and may, upon refufal in either cafe, be committed to gaol.

## Sect. XIX. Of Courts of Criminal yurifdiction.

(1.) In the method of puniflonent may be confidered, 1 . The feveral courts of criminal jurifdiction. 2 The feveral proceedings therein.
(2.) The criminal courts are, 1. Thofe of a public and general jurifdiction throughout the realm. 2. Thofe of a private and fpecial jurifdidion.
(3.) Public criminal courts are, 1. The high court of parliament; which proceeds by impeachment. 2. The court of the lord high fteward; and the court of the king in full parliament : for the trial of capitally indicted peers. 3. The court of king's bench. 4. The court of chivalry. 5. The court of admiralty, under the king's commilfion. 6. The courts of oyer and terminer, and general gaol delivery. 7. The court of quarter feffions of the peace. 8. The theriff's tourn. 9. The court left. 10. The court of the coroner. 11. The court of the clerk of the market.
(4.) Private criminal courts are, 1. The court of the lord fleward, \&c. by flatute of Henry VII. 2. The court of the lord neward, \&c. by ftatute of Henry VIII. 3. The univerfity courts.

## Sect. XX. Of Summary Convitions.

(1.) Proceedings in criminal courts are, 1. Summary. 2. Regular.
(2.) Summary proceedings are fuch, whereby a man may be convicted of divers offences, without any formal procefs or jury, at the difcretion of the judge or judges appointed by act of parliament, or common law.
(3.) Such are, 1. Trials of offences and frauds againft the laws of excije and other branches of the king's revenut. 2. Convictions before juffices of the peace upon a variety of minute offences, chielly againft

2so of the public police. 3. Ahachments for contempts to the iglat.d fuperior courts of juftice.

## Sect. XXI. Of Arrefls.

(1.) Regular proceedings in the courts of common law, are, 1. Arref. 2. Commitment and bail. 3. Profecution. 4. Procefs. 5. Arraipnment, and its incidents. 6. Plea and ifue. 7. Trial and convifion. 8. Clergy. 9. Fudgement, and its confequences. 10. Reverfal of judgement. is. Reprieve or pardon, 12. Execution.
(2.) An arref is the apprehending, or reftraining, of one's perfon; in order to be forthcoming to anfiwer a crime whereof one is accufed or fufpected.
(3.) This may be done, I. By warrant. 2. By an officer, without warrant. 3. By a private perfon, without warrant. 4. By bue and cry.

## Sect. XXII. Of Commitment and Bail.

(1.) Commitment is the confinement of one's perfon in prifon, for lafe cultody, by warrant from proper authority; unlefs, -in bailable offences, he puts in fufficient bail, or fecurity for his future appearance.
(2.) The magiftrate is bound to take reafonable bail, if offered; unlefs the offender be not bailable.
(3.) Such are, 1. Perfons accufed of treafon; or, 2. Of murder; or, 3. Of manflaughter, by indictment; or if the prifoner was clearly the flayer. 4. Prifon breakers, when committed for felony. 5. Outlaws. 6. Thofe who have abjured the realm. 7. Approvers, and appellees. 8. Perfons taken with the mainour. 9. Perfons accufed of arfon. 10. Excommunicated perfons.
(4.) The magiftrate may, at his difcretion, admit to bail, or otherwife, perfons not of good fame, charged with other felonies, whether as principals or as accefiories.
(5.) If they be of good fame, he is bound to admit them to bail.
(6.) The court of king's bench, or its judges in time of vacation, may bail in any cafe whatfoever.

## Sect. XXIII. Of the Several Modes of Profecution:

exiv. (x.) Profecution, or the manner o accufing offenders, is either by a previous finding of a grand jury; as, 1. By prefentment. 2. By indict:nent. Or, without fuch finding. 3. By information. 4. By appeal.
(2.) A prefentment is the notice taken by a grand jury of any offence, from their own knowledge or obfervation.
(3.) An inditment is a written accufation of one or more perfons of a crime or mifdemeanor, preferred to, and prefented on oath by, a grand jury ; exprefing with fufficient certainty, the perfon, time, place, and offence.
(4.) An information is, 1. At the fuit of the king and a fubject, upon penal ftatutes. 2. At the fuit of the king only. Either, 1 . Filed by the attorney general ex officio, for fuch mifdemeanors as affect the

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king's perfon or govemment: or, 2. Filed by the ma- Lave of fter of the crown office (with leave of the court of England king's bench) at the relation of fome private fubject $\underbrace{\text { Epitomifed. }}$ for other grofs and notorious mifdemeanors. All differing from indiftments in this; that they are exhibited by the informer, or the king's officer; and not on the oath of a grand jury.
(5.) An appeal is an accufation or fuit, brought by one private fubject againt another, for larciny, rape, mayhem, arfon, or homicide: which the king cannot difcharge or pardon, but the party alone can releafe.

## Sect. XXIV. Of Procefs upon an Inditment.

(1.) Procefs to bring in an offender, when indicted in his abfence, is, in middemeanors, by venire facias, diftrefs infinite, and capias : in capital crimes, by capias only: and, in both, by outlawry.
(2.) During this fage of proceedings, the indiatment may be removed into the court of king's bench from any inferior juridiction, by writ of certiorari fa. cias: and cognizance mult be claimed in places of exclufive jurifdiction.

## Sect. XXV. Of Arraignment, and its Incidents.

(1.) Arraignment is the calling of the prifoner to the bar of the court, to. anfwer the matter of the indictment.
(2.) Incident hereunto are, 1. The ftanding mute of the prifoner : for which, in petit treafon, and felonies of death, he fhall undergo the peine fort et dure. 2. His confeffion; which is either fimple, or by way of a/provement:

## Sect. XXVI. Of Plea, and its $1 /$ /fie.

(1.) The plea, or defenfive matter alleged by the prifoner, may be, 1. A plea to the jurifdiction. 2. A demurrer in point of law. 3. A plea in abatement. 4. A fpecial plea in bar; which is, Ift, Auterfoits acquit; 2dly, Auterfoits convict; 3 dly, Auterfoits attaint; $4^{\text {thly, A pardon. 5. The general iffue, not guilty. }}$
(2.) Hereupon iffue is joined by the clerk of the arraigns, on behalf of the king.

## Sect. XXVII. Of Trial, and Conviftion.

(8.) Trials of offences, by the laws of England, were and are, 1. By ordeal, of either fire or water. 2. By the corfred. Both thele have been long abolihed. 3. By battel, in appeals and improvements: 4. By the pecrs of Great Britain. 5. By jury.
(2.) The method and procefs of trial by jury is, 1. The impannelling of the jury. 2. Challenges; ift, for caufe; zdly, pelemptory. 3. Tales de circumßantibus. 4. The oath of the jury. 5. The evidence. 6. The verdict, either general or (pecial.
(3.) Conviction is when the prifoner pleads, or is found guilty: whereupon, in felonies, the profecutor is entitled to, 1. His expences. 2. Reititution of his goods.

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(1.) Clergy, or the benefit thereof, was originally derived from the ufurped jurifdiction of the Popifh ecclefialtics; but hath fince been new-modelled by feveral fatutes.
(2.) It is an exemption of the clergy from any other fecular punifhment for felony, than imprifonment for a year, at the court's difcretion; and it is extended likerrife, abfolutely, to lay peers, for the firft offence; and to all lay-commoners, for the firt offence allo, upon condition of branding, imprifonment, or tranfportation.
(3.) All felonies are entitled to the benefit of clergy, except fuch as are now oufted by particular ftatutes.
(4.) Felons, on receiving the benefit of clergy, (thouglı they forfeit their goods to the crown), are difcharged of all clergyable felonies before committed, and reftored in all capacities and credits.

## Sect. XXIX. Of Yudgement, and its Confequences.

Ai.
(1.) Judgement (unlefs any matter be offered in arreft thereof) follows upon conviction; being the pronouncing of that punifiment which is exprefsly ordained by law.
(2.) Attainder of a criminal is the immediate confequence, 1. Of having judgement of death pronounced upon him. 2. Of outlawry for a capital offence.
(3.) The confequences of attainder are, 1. Forfeiture to the king. 2. Corruption of blood.
(4.) Forfeiture to the king is, 1. Of real eftates, upon attainder ;-in high treafon, abfolutely, till the death of the late Pretender's fons; -in felonies, for the king's year, day, and wafte;-in mifprifon of treafon, affaults on a judge, or battery fitting the courts; during the life of the offender. 2. Of perfonal eftates, upon conviction; in all treafon, mifprifion of trealon, felony, excufable homicide, petit larceny, ftanding mute upon arraignment, the above-named contempts of the King's courts, and flight.
(5.) Corruption of blood is an utter extinction of all inheritable quality therein : fo that, after the king's forfeiture is firf fatisfied, the criminal's lands efcheat to
the lord of the fee; and he can never afterwards inhe- Lam rit, be inherited, or have any inheritance derived through engi him.

## SECT. XXX. Of Reverfal of Yudgement.

(1.) Judgements, and their confequences, may be avoided, 1. By falfifying, or reverfing, the attainder. 2. By reprieve, or pardon.
(2.) Attainders may be falffied, or reverfed. 1. With. out a writ of error; for matter dehors the record. 2. By writ of error ; for miltakes in the judgement, or record. 3. By act of parliament ; for favour.
(3.) When an outlawry is reverfed, the party is reftored to the fame plight as if he had appeared upon the capias. When a judgerrent, on conviction, is reverfed, the party ftands as if never accufed.

## Sect. XXXI. Of Reprieve, and Pardon.

(1.) A reprieve is a temporary fufpenfion of the judgement, 1. Ex arbitrio judicis. 22 Ex neceflutate $l e$. gis; for pregnancy, infanity, or the trial of identity of perfon, which muft always be tried inflanter.
(2.) A pardon is a permanent avoider of the judgement by the king's majelty, in offences againl his crown and dignity; drawn in due form of law, allowed in open court, and thereby making the offender a new man.
(3.) The king cannot pardon, I. Imprifonment of the fubject beyond the feas. 2. Offences profecuted by appeal. 3. Common muifances. 4. Offences againit popular or penal ftatutes, after information brought by a fubject. Nor is his pardon pleadable to an impeachment by the commons in parliament.

## Sect. XXXII. Of Execution.

(3.) Execution is the completion of human punifhment, and muft be frictly performed in the manner which the law directs.
(2.) The warrant for execution is fometimes under the hand and real of the judge; fometimes by writ from the king; fometimes by rule of court; but commonly by the judges figning the calendar of prifoners, with their leparate jadgements in the margin.

## PART III. THE LAW OF SCOTLAND.

## GENERAL OBSERVATIONS.

1. THE municipal law of Scotland, as of moft other countries, confits partly of tlatutory or written law, whinh has the exprefs authority of the legilative power ; partly of cuftomary or unwritten law, which derives force from its prefumed or tacit confent.
2. Under our flatutory or written law is comprehended, (1.) Our acts of parliament : not only thofe which were made in the reign of James I. of Scotland, and from thence down to our union with England in 1757 , but fuch of the Britifh flatutes enached fince the Union as concerned this part of the united l:ingdom.
3. The remains of our ancient written law were pub-Regiam lifhed by Sir John Skene, clerk regifter, in the begin-Majeftsning of the laft century, by licenfe of parliament. The tem. books of Regian MajefRatem, to which the whole collection owes its title, feem to be a fyltem of Scots lar, written by a private lawyer at the command of David I.; and though no exprefs confirmation of that treatife by the legilature appears, yet it is admitted to have been the ancient law of our kingdom by exprefs ftatutes. The borough laws, which were allo enacted by the fame King David; and the ftatutes of William, Alexander II. David II. and the three Roberts, arc univerfally allowed to be genuine. Our parliaments have once and again appointed commifions to revife and

Ivoof amend the Regiam Majefatem, and the other ancient s:and. books of our law, and to make their report : but as no report appcars to have been made, nor confequently any ratification by parliament, none of thefe remsins are received, as of proper authority, in our courts; yet they are of excellent ufe in proving and illuftrating our molt ancient cuftoms.
4. Our written law comprehends, (2.) The acts of federunt, which are ordinances for regulating the forms of proceeding before the court of feffion in the adminiftration of juftice, made by the judges, who have a delegated power from the legiflature for that purpofe. Some of thefe acts dip upon matter of right, which de. clare what the judges apprehend to be the law of Scotland, and what they are to obferve afterwards as a rule of judgement.
5. The civil, or Roman and canon laws, though they are not perhaps to be deemed proper parts of our mritten law, have undoubtedly had the greatef influence in Scotland. The powers exercifed by our fovereigns and judges have been juttified upon no other ground, than that they were conformable to the civil or canon laws; and a 〔pecial fatute was judged neceffary, upon the Reformation, to refcind fuch of their conflitutions as were repugnant to the Proteflant doctrine. From that period, the canon law has been little refpected, except in queflions of tithes, patronages, and fome few more articles of ecclefiaftical right: but the Roman continues to have great authority in all cafes where it is not derogated from by flatute or cufrom, and where the genius of our law fuffers us to apply it.
6. Our unwritten or cuftomary law, is that which without being exprefly enacted by fatute, derives its force from the tacit confent of king and people; which confent is prefumed from the ancient cuftom of the community. Cultom, as it is equally founded in the will of the lawgiver with written law, has therefore the fame effects: hence, as one flatute may be explained or repealed by another, fo a flatute may be explained by the uniform practice of the community, and even go into difufe by a pofterior contrary cuftom. But this power of cuffom to derogate from prior flatutes is generally confined by lawyers to flatutes concerning private right, and does not extend to thofe which regard public policy.
Gions of 7. An uniform tract of the judgements or decifions
of the court of feffion is commonly confidered as part of our cultomary law ; and without doubt, where a particular cuftom is thereby fixed or proved, fuch cuffom of itfelf conftitutes law: but decifions, though they bind the parties litigating, have not, in their own mature, the authority of law in fimilar cafes; yet, where they continue uniform, great weight is juftly laid on ements them. Neither can the judgements of the houfe of pars e houre of Great Britain reach farther than to the purties in the
ers. appeal, fince in thefe the peers act as judges, not as lasvivers.
8. Though the laws of nature are fufficiently pubifhed by the internal fuggeftion of natural light, civil laws cannot be confidered as a rule for the conduct of life, till they are notified to thofe whofe conduct they are to regulate. The Scots acts of parliament wcre, by our moft ancient cuftom, proclaimed in all the different ghires, boroughs, and baron courts, of the kingdom.

But after our flatutes came to be frinted, that cuflom was gradually neglected; and at latt, the publication of oar laws, at the market-crofs of Edinburgh, was declared fufficient; and they became obligatory 40 days thereafter. Britill fatutes are deemed fuficiently notified, without formal promulgation; eitber becaufe the printing is truly a publication; or becaufe every fubject is, by a maxim of the Englih law, party to them, as being prefent in parliament, either by himfelf or his reprefentative. After a larv is publiftied, no pretence of ignorance can excufe the breach of it.
9. As laws are given for the rule of our conduct, they can regnlate future cafes only; for paft actions, being out of our power, can admit of no rule. Declaratory laws form no exception to this; for a llatute, where it is declaratory of a former law, does no more than interpret its meaning; and it is included in the notion of interpretation, that it muff draw back to the date of the law interpreted.
10. By the rules of inteipreting flatute law received Interpreta, in Scotland, an argument may be ufed from the title tion of law to the act itfelf, à rubro ad nigrum; at leafl, where the rubric has either been originally framed, or afterwards adopted by the legitlature. The preamble or narrative, which recites the inconveniences that had arifen from the former law ; and the caufes inducing the enactment, may alfo lead a judge to the general meaning of the fatute. But the chief weight is to be laid on the fatutory words.
11. Laws, being directed to the unlearned as well as the learned, ought to be conffrued in their moft obvious meaning, and not explained away by fubtle difinctions; and no law is to fuffer a figurative interpretation, where the proper fenfe of the words is as commodious, and equally fitted to the fubject of the flatute. Laws ought to be explained fo as to exclude abfurdities, and in the fenfe which appears moft agreeable to former laws; to the intention of the lawgiver, and to the general frame and ffructure of the conflitution. In prohibitory laws, where the right of acting is taken from a perfon, folely for the private advantage of another, the confent of him, in whofe behalf the law was made, thall fupport the act done in breach of it ; but the confent of parties immediately interefted has no effect in matters which regard the public utility of a ftate. Where the words of a fatute are capable but of one meaning, the flatute mult be obferved, however hard it may bear on particular perfons. Neverthelefs, as no human fyftem of laws can comprehend all poffible cafes, more may fometimes be meant by the lawgiver than is expreffed; and hence certain flatutes, where extenfion is not plainly excluded, may be extended beyond the letter, to fimilar and omitted cafes: others are to be confined to the fatutory words.
12. A frict interpretation is to be applied, (1.) To correctory fatutes, which repeal or reffriet former laws; and to flatutes which enact heavy penalties, or reffrain the natural liberties of mankind. (2.) Laws, made on occafion of prefent exigencies in a flate, ought not to be drawn to fimilar cales, after the prefure is over. (3.) Where fatutes eftablilh certain folemuities as requifite to deeds, fuch folemnities are not fuppliable by equivalents; for folemnities lofe their nature, when they are not performed fpeciñcally. (4.) A flatute, which enumerates fpecial cafes, is, with difticulty, to be extended

Law of Scotland: $\xrightarrow{-}$
tended to cafes not exprefied; but, where a law does not defcend to particulars, there is greater reafon to extend it to fimilar cafes. (5.) Statutes, which carry a difpenfation or privilege to particular perfons or focieties, fuffer a frict interpretation; becaufe they derogate from the general law, and imply a burden upon the relt of the community. But at no rate can a privilege be explained to the prejudice of thofe in whofe behalf it was granted. As the only foundation of cuftomary law is ufage, which conlifts in fact, fuch law can go no fartleer than the particular ufage has gore.
Ample.
13. All ftatutes, concerning matters fpecially favoured by law, receive an ample interpretation; as laws for the encouragement of commerce, or of any ufeful public undertaking, for making effectual the wills of dying perfons, for reftraining fraud, for the fecurity of creditors, \&ic. A flatute, though iss fubje er matter thould not be a favourite of the law, may be extended to fimilar cafes, which did not exift when the fatate was made; and for which, therefore, it was not in the lawgiver's power to provide.
14. Every flatute, however unfavourable, muft receive the interpretation neceflary to give it effect : and, on the other hand, in the extenfion of favourable laws, fcope muft not be given to the imagination, in difcovering remote refemblances; the extenfion muft be 1 i mited to the cales immediately fimilar. Where there is ground to conclude that the legiffature has omitted a cafe out of the flatute purpofely, the flatute cannot be extended to that cafe, let it be ever fo fimilar to the cafes expreffied.
15. The objects of the laws of Scotland, accerding to Mr Erkine, one of the latef writers on the fubject, are, Perfons, Things, and Aetions.

## Chap. I. Of Persons.

Avosg perfons, judges, who are invefted with jurifdiction, deferve the firll confideration.

## Sect. I. Of Jurifdiction and Yudges in General.

Jurifdiction is a power conferred upon a judge or magillrate, to take cognizance of and decide caufes according to law, and to carry his fentences into execution. That tract of ground, or diftrict, within which 2 judge has the right of jurifdiction, is called his territory: and every act of jurifdiction exercifed by a judge without his territory, either by pronouncing fentence, or carrving it into execution, is null.
2. The fupreme power, which has the right of en-

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fountain of jurifdiction. acting laws, falls naturally to have the right of erecting courts, and appointing judges, who may apply thefe laws to particular cafes: but, in Scotland, this right has been always intrufted with the crown, as having the executive power of the fate.
3. Jurifdiction is either fupreme, inferior, or mixed. That jurifdiction is fupreme, from which there lies no appeal to a higher court. Inferior courts are thofe whofe fentences are fubject to the review of the fupreme courts, and whofe jurifdiction is confined to a particular territory. Mixed jurididion participates of the mature both of the fupreme and inferior: this the jridge of the high court of admiralty, and the com-
W.

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mifiaries of Edinburght, have an univerfal jurifdiction $L_{\text {an }}$ over Scotland, and they can review the decrees of Sc:t! interior admirals and commiffaries: but fince their own dccrees are fubject to the review of the courts of felfion or jufticizry, they are, in that refpect, iuferior ccurts.
4. Jurildiction is either civil or criminal : by the firfto queftions of private right are decided; by the other, crimes are panihed. But, in all jurildietion, though merely civil, there is a power inherent in the judge to. punifh either corporally, or by a pecuniary fine, thofe who offend during the proceedings of the court, or who thall afterwards obftruct the execution of the fentence.
5. Jurifdiction is either privative or cumulative. Privative jurididion, is that which belongs only to one court, to the exclufion of all others. Cumulative, otherwife called concurrent, is that which may be exercifed by any one of two or more cours, in the fame caufe. In civil cumulative jurifdiction, the private purfuer has the right of election before which of the courts he fhall fue; but as, in criminal queftions which are profecuted by a public officer of court, a collifion of jurifdiction might happen, through each of the judges claiming the exercife of their right, that judge, by whofe warrant the delinquent is firt cited or apprehended (which is the firft Atep of jurifdiction), acquires thereby (jure praventionis) the exclulive right of judgeing the caufe.
6. All rights of jurifdiction, being originally granted in confideration of the fitnefs of the grantee, were therefore perforial, and died with himielf. But, upon the introduction of the feadal fyftem, certain jurifdictions were annexed to lands, and defcended to heirs, as well as the lands to which they were annexed; but nowt all heritable juridictions, except thofe of admiralty and a fmall pittance referved to barons, are either abolifhed, or refumed and annesed to the crown.
7. Jurifdiction is either proper or delegated. Proper jurildiction, is that which belongs to a judge or magiffrate himfelf, in virtue of his office. Delegated, is that which is communicated by the judge to another who acts in his name, called a depute or depuly. Where a deputy appoints one under him, he is called fubfitute. No grant of jurifdiction, which is an office requiring perional qualifications, can be delegated by the grantee to another, without an exprefs power in the grant.
8. Civil jurifdittion is founded, I. Ratione domicilit, Civil jus if the defender has his domicile within the judge's ter- diction, ritory. A domicile is the dwelling place where a per- wherein fon lives with an intention to remain; and cuftom has fixed it as rule, that refidence for 40 days founds jurifdiction. If one has no fixed dwelling place, e. g. a foldier, or a travelling merchant, a perfonal citation againft him within the territory is fufficient to found the judge's jurifdiction over him, even in civil queflions. As the defender is not obliged to appear before a court to which he is not fubjed, the purfuer mult follow the defender's domicile.
9. It is founded, 2. Ratione reifita, if the fubject in queftion lie within the territory If that fubject be inmoveable, the judge, whofe jurifdiction is founded in this way, is the fole judge competent, excluding the judge of the domicile.
10. Where
10. Where one, who has not his domicile within the territory, is to be lucd before an inferior court, ratione rei fita, the court of feffion muft be applied to, whofe juridiction is univerfal, and who, of courfe, grants letters of fupplement to cite the defender to appear before the inferior judge. Where the party to be fued refides in another kingdom, and has an eftate in this, the court of feffion is the only proper court, as the commune forum to all pertons reliding abroad; and the defender, if hic eftate bc heritable, is conlidered as lawfuily fummoned to that court, by a citation at the narket crefs of Ecinburgh, ar d fier and froore of Leith: but where a ftranger, not a native of Scotland, has onI) a noveable eftate in this kinsdom, he is deemed to be fo little fubject to the juriidition of our courts, that action cannot be brought againf him till his effects de firt atiached by an arrellnent jur:ddectionis fundandae caufa; which is laid on by a warrant ifluing from the fupreme courts of felfion, or admiralty, or from that witnin whole terntery the fulject is fituated, at the fuit of the creditor.
refmert in. A judze may, in ffecial cafes, arreft or fecure Arangers. the perions of fuch a have neither domicile nor eftate witbin his territory, even for cuvil debts. Thus, on the border between Scotland and England, warrants are granted of courfe by the jud e-ordinary of either fide, againg thofe who have their dumicile upon the oppofite fide, for arreling their profus, till they give cat: inn judicio fili; and ever, the pertons of citizens or natires inay be to tecored, where there is ju.t reafon oo furpect that they ar. in metivarone fugue, i. e. that ihey inten fuddenly to whthraw from the kirgiom; upon which fulpicion, the creditor who applies for the warrant mull make oath. An inhabitant of a boroughroyal, who has furnilled one whe lives without the borough in meat, clothes, or other mercharedife, and who has no fecurity for it but his own account book, may arreft his debtor, till he give fecurity j::dicio ffi.
12. A judge may be declined, i. e. his jurifdiction :inature. difowned judicially, 1. Ratione coufe, from his incompetency to the fpecial caufe brought before him. 2. Ralione Jufpecti judicis; where either the judge himfelf, or his near kinfman, lias an intcreft in the fuit. No judge can vote in the caufe of his tather, brother, or fon, either by confanguinity or affinity; nor in the caufe of his uncle or nephcir by confanguinity. 3. Ratione privilegzii; where the party is by privilege exempted from their jurifdiation
mogated; 13. Prorogated jurifdiction (jurifdizzio in confen:ienidiction. $z e s$ ) is that which is, by the confent of parties, conferred upon a judge, who without fuch confent, would be incompetent, Where a judge is incompetent, every fep be takes muft be null, till his jurifoiction be made competent by the party's actual fuhmilfion to it. It is otherwife where the judge is conpetent, but may be declined by the party upon privilege.
14. In order to prorogation, the judge mult have jurifiction, fucio as may be prorogated. Hence, prosogation canrot be admitted where the judge's jurifdiction is excluded by flatute. Yet where the caufe is of the fame nature with thofe to which the judge is competent, though law may have confined his jurifdiation within a certain fum, parties may prorogate it above that lum unlefs where prorogat on is prohibited. P'roaugation is not admitted in the king's caufes; for the Yas. XI. Part II.
intereft of the crown cannot be hurt by the negligence of its officers.
15. All judges muta at their admaifion fwear, 1. The Oaths of oath of allegiance, and fubicribe the affurance; 2. The judges. oath of ahjuration; 3. The oath of fupremacy; laftly, The oath de fideli adminifratione.
16. A party who has either properly declined the lecters of jurildiction of the judge before whom he had been ci- adrocation. ted, or who thinks himfelf aggrieved by any proceedings in the caufe, may, before decree, ar ly to the court of feflion to iffue letters of adra ation for calling the action from before the irferiur court to themfelves. The grounds, therefore, upon which a party may pray for letters of advocation, are incompetency and iniquity. Under incompetency, is cumpreliended not o.ily defect of jurididition, but all the grourdo of declii ing a jurifdiction. in i.felf competent, arifing either frum fufpicion of the juige, or privilcge in the parti:s. A judge is faid to commit iniquity, when he ether dela"s jutice, or pronounces fentence, in the exe:cife u: lis jurifdiction, contrary to law.
17. That the court of feffion may not wafte their Advocatoa time in tritles, no caufe for a fum below twelve pounds sco limisfterling can be advocated to the ccurt of felfion from ${ }^{\text {ed. }}$ the inferior judge competent : but if an inferior judge flall proceed upon a caufe to which he is incompetent, the caufe may be carried from him by advocation, let the fubject be cver fo inconfiderable.

## Sect. II. Of the Supreme Fullyes and Courts of Scotland.

1. The king, who is the fountain of jurifdi\&tion, king, might by our conllitution have judged in all caufes, either in his own perfon, or by thofe whom he was pleaf-and ed to velt with jurifdiction.
2. The parliament of Scotland, as our court of the Parliament. laft refort, had the right of reviewing the fentences of ali our fupreme courts.
3. By the treaty of Union, 1797 , the parliaments of Parliament Scotland and England are united into one parliament of Great of Great Britain. From this period, the Britih houfe Brizain. of peers, as coming in place of the Scots parliameint, is become our court of the laft refort, to which apveals lie from all the fupreme courts of Scotland: but that court has no original jurifdiction in civil matters in which they judge only upon appeal. By art. 22. of that treaty, the Scots fhare of the reprefentation in the houfe of peers is fixed to 16 Scots peers elective; and in the houle of commons, to 45 commoners, of which 30 are elceted by the frecholders of counties, and 15 by the royal boroughs. The Scots privy council was alfo thereuponabolihed, and funk into that of Great Britain, which for the fulure is declared to have no other powers than the Englihh privy council had at the time of the union.
4. A court was erected in 1425 , coriffing of cer-Court of tain perfons to be named by the king, out of the three fchion. eftates of parliament, which was vefted with the jurildiction formerly lodged in the council, and got the name of the felfor, becaufe it was ordained to hold annually a certain number of felfions at the places to be fpecially appointed by the king. This rount had a jurididistion, cumulative with the julge ordinary, in fpuilzies, and other poffefory actions, ard in detes:

Law of Suctland.

College oi juftice.

Judges, by whom named.
'Their qualifications and trial.

Privileges of the college of juftice.
but they had no cognizance in queftions of property of heritable fubjects. No appeal lay from its judgements to the parliament. The jadges of this court ferved by rotation, and were changed from time to time, after having fat 40 days; and became fo negligent in the aulminitration of juftice, that it was at lath thought necefliry to transfer the jurifdiction of this court to a council to be named by the king, called the daily council.
5. The prefent model of the court of feffion, or college of jullice, was formed in the reign of James $\mathrm{V}^{r}$. The judges thereof, who were velted with an univerfal civil juridiction, confited originally of feren churchmen, feren laymen, and a prelident, whom it behoved to be a prelate; but fpiritual judges were in $15^{8} 4$ partly, and in 3640 totally, prohibited. The judges of fettion have been always received by warrants from the crown. Anciently his majefly feems to have tranf. ferred to the court itfelf the right of choofing their own pretident; and in a federunt recorded June 26. 1593, the king condefcended to prefent to thie lords, upon crery vacancy in the bench, a lift of three perfors, out of which they were to choole one. But his majety foon refumed the exercile of both rights, which continued with the crown till the ufurpation; when it was ordained that the king fhould name the judges of the feffion, by the advice of parliament. After the Reftoration, the nomination was again declared to be folely in the fovereign.
6. Though judges may, in the gencral calc, be named at the age of $2 t$ years, the lords of feltion muft be at leatt 25 . No perfon can be named lord of feffion, who las not ferved as an advocate or principal clerk of feffion for five ycars, or as a writer to the fignet for ten: and in the cafe of a writer to the fignet, he mult undergo the ordinary trials upon the Roman law, and he found qqualified two years before he can be named. Upon a vacancy in the bench, the king prefents the fucceifor by a letter addreffed to the lords, wherein he requires them to try and admit the perfon prefented. The powers given to them to reject the prefentee upon irial are taken allay, and a bare liberty to remonitrate fubftituted in its place.
7. Befides the 15 ordinary judges, the king was al. luwed to name three or four lords of his great council, who might fit and vote with them. 'Ihefe extraordiaary lords were fuppreffed in the reign of Geo. I.
8. 'The appellation of the college of juftice is not confined to the judges, who are diftinguifled by the name of fonators ; but comprehends advocates, clerks of feffion, writers to the fignet, and others, as defcribed, A7S. 23 d Fcb. 1687 . Where, therefore, the college of jultice is entitled to any privilege, it eatends to all the members of the college. They are exempted from watching, warding, and other fervices within borough; and from the payment of minifters ftipends, and of all cuitoms, \&c. impofed upon goods carried to or from the city of Edinturgh. Patt of thefe privileges and immunities were lately called in quellion by the city of Edinburgh; but they were found by the court of feffion (affirmed upor appeal) to be in full force.
9. Though the jurifdictin of the feflion be properly limised to civil caufes. the judges have always fultained themlelves as competent to the crime of falfehood.

Where the falfehood deferves death or demembration, they, after finding the crime proved, remit the criminal to the court of jufticiary. Special fatute has given to the court of feffion juridiction in contraventions of law-burrows, deforcements, and breach of arreftment; and they have been in ufe to judge in battery pendente lite, and in ufury.

Io. In certain civil canfes, the jurifdiction of the feffion is exclufive of all inferior juridictions; as in declarators of property, and other competitions of heritable rights, proving of the tenor, ce/foncs tonorum, reltitution of minors, redustions of decrees or of writings, fales of the ettates of minors or barkrupts, \& \& In a fecond clafs of caules, their juridiction can be oniy exercifed in the way of review, after the caule is brought from the inferior court; as in maritinue and confitorial caufes, which muft be purfued in the firlt inflance before the admiral or commiflary; and in action:, below twelve pounds iterling, which mult be commenced before the judge ordinary. In all civil ac. tions, which fall under neither of thefe clafles, the jurifdiction of the faffion is concurrent, even in the firft inftance, with that of the judge ordinary. The feffion may proceed as a court of equity by the rules of con. fcience, in abating the rigour of law, and giving ail in proper cafes to fuch as in a court of law can have no remedy: and this power is inherent in the fupreme court of every country, where feparate courts are not eftablilhed for law and for equity.

This court formerly met upon the 12 th day of Junc and rofe upon the rith day of Augult fur the fummer feffion: but now, in confequence of an act paffed in the feffion of parliament 1790, it meets on the 12 th of May and rifes on the IIth of July for the fummer feffion; the winter federunt fill remaining as formerly, viz. from the 12 th of November to the 11 th of March inclutive.
1.: The fupreme criminal judge was flyled the Jufticia Jufticiar; and he had anciently an univerfal civil iu-court. riddiction, even in matters of heritage. He was obliged to hold two juftice courts or ayres yearly at Edinburgh or Pecbics, where ail the freeholders of the kingdom were obliged to attend. Befides this univerfal court, fpecial juitice ayres were held in all the different flures in the kingdom twje in the year. Thefe laft having gone into difufe, eight deputies were appointed, two for every quarter of the kingdon, who thould make their circuits over the whole in April and October.
12. The office of deputies was fupprefled in 1672 ; and five lords of fefion were added, as commiffioncrs of jufticiary, to the juitice general and juftice clerk. The jultice general, if prefent, is conflant prefident of the court, and in his ablence the jultice clerk. The kingdom is divided into three diftricts, and two of the judges are appointed to hold circuits in certain boroughs of each diftrict twice in the year ; one judge may proceed to bufinefs in the abfence of his colleague. In trial, before this court the evidence was always taken down in writing till the aet 231 Geo. III. was pafled; by which the judges may try and determine all caufes by the verdict of an affize upon examining the witneffes ziza roce, without reducing the teftimony into writing, unlefs it thall appear more expedient to proceed in the former way, which they have it in their power to do. This act was at firft temporary, but is now made perpetual by 27 th Geo. III. cap. I8.
13. By an old fatute, the crimes of robbery, rape, murder and wilful fire-raifing (the four pleas of the crown), are faid to be referved to the king's court of juthiciary; but the only crime in which, de praxi, the juaididiction of junticiary became at laft exclunive of all inferior crimiral jurifdiation, was that of high treafon. The court of julticiary, when fitting at Edinburgh, has a power of adrocating caules from all inferior criminal judges, and of fufpending their fentences.
14. The circuit coutt can alfo judge in all criminal caufes which do not infer death or demembration, upon appeal from any inferiur court within their diftrict ; and has a fupreme civil juridiction, by way of appeal, in all caufes not exceeding twelve pounds Iterling, in which their decrees are not fubject to review; but no appeal is to lie to the circuit, till the caufe be finally determined in the inferior court.
15. This court of exchequer, as the king's chamberlain court, judged in all queftions of the revenue. In purfance of the treaty of Union, that court was abolifhed, and a new court erected, confilting of the lord high treafurer of Great Britain, and a chief baron, with four other barons of exchequer; which barons are to be made of ferjeants at law, Englifh barritters, or Scots advocates of five years flanding. This court has a priva:ive jurildiction conferred upon it, as to the duties of culfoms, excife, or other revennes appertaining to the king or prince of Sco:land, and as to all honours and eltates that may accerue to the crown ; in which matters, they are to judge by the forms of proceeding ufed in the Exglith court of exchequer, under the following limitations: That no debt due to the crown fhall affect the debtor's real eftate in any other manner than fuch eftate may be affented by the laws of Scotland, and that the validity of the crown's titles to any honours or lands fhall continue to be tried by the court of fefiion. The barons have the powers of the Soots court transferred to them, of paffing the accounts of fleriffs, or other utficers who have the execution of writs ifiuing from, or returnable to, the court of exchequer, and of receiving refiguations, and pafing lignatures of charters, gifts of cafualties, \&:c. But though all thefe mull pafs in exchequer, it is the court of feffion only who can judge of their preference after they are completed.
16. The jurifdiction of the admiral in maritime exufes was of old concurrent with that of the feflion. The high admiral is declared the king's jullice general upon the feas, on f.efh water within Hood mark, and in all harbours and creeks. His civil jurifdiction extends to all maritime caules: and fo comprehends queltions of charter parties, frcighte, falvages, bottomries, \&c. Hic exercifes this fupreme jurifdiction by a delegate, the judge of the high court of admirolty; and he may alfo name inferior Jeputies, whofe jurifdiction is limited to particular diffriets, and whofe fentences are fubject to the review of the high court. In caufes which are declared to fall under the admiral's cognizance, his jurifdiction is fole ; infornuch, that the feffion itfelf, though it may reviev lisis derrecs by fufpenfion or reduction, cannot carry a maritime quection from him by advocation. The admiral has acquired, by ufage, a ju-
rifdition in mercantile caufes, even where they are not Law of Arictly maritime, cumulative with that of the judge or- $\underbrace{\text { Scotland. }}$ dinary.
17. All our fupreme courts have feals or fignets, pro-Signet. per to their leveral jurifdictions. The courts of feffion and jufliciary ufed formerly the fame fignet, which was called the king's, becaule the writs iffuing from them run in the king's name; and though the jutliciary got at lalt a feparate fignct for itfelf, yet that of the feflion Atill retains the appellation of the king's /fignet. In this office are fealed fummonfes for citation, letters of executorial diligence, or for flaying or prohibiting of diligence, and generaliy whatever pafles by the warrant of tite feffion, and is to be executed by the officers of the court. All thefe nult, before fealing, be figned by the writers or clerks of the fignet: But letters of diligence, where they are granted in a depending procefs, merely for probation, though they pafs by the fignet, muft be fubferibed by a clerk of feffion. The clerks of the fignet alfo prepare and fubfcribe ail fignatures of charters, or other royal grants, which pals in eschequer.

## Sect. III. Of inferior yudges and Courts of Scotlana.

1. Sheriff (from reeve governor, and /boer to cut or Sheritif: divide) is the judge ordinary conllituted by the crown over a particular divifion or county. 'Whe fherifl's jurifdiction, both civil and criminal, rras, in ancient times, nearly as ample within his own territory as that of the fupreme courts of feffion and julficiary was over the whole kingdom.
2. His civil jurididion now extends to all actions upon contracts, or wher perfonal obligations; forthcomings, poindings of the ground, mails and duties; and to all polfeffory actions, as removings, ejections, Tpuikies, \&c.; to all briescs iffuing from the chancery, as of inquelt, terce, divilion, tutory, \&c.; and even to adjudications of land eltatec, when procecding on the renunciation of the apparent heir. His prefent criminal jurildiction extends to certain capital crimes, as theft, and even murder, though it be one of the pleas of the crown; and he is competent to mort quellions of public police, ard has a cumulative juridiction with jultices of the peace in all riots and breaches of the peace.
3. Sheriffs have a mininerial power, in wirtue of which they return juries, in order to a trial of caufes that require jurics. The writs for clecting members of parliament have been, fince the union, directed to the therifls, who, after they are executed, return them to the crown oflice from whence thcy iffued. They alfo execute writs iffuing from the court of exchequer; and in general, take care of all cetates, duties, or cafualties that fall to the crown withia their territary, fur which they muf account to the exchequer.
4. A lord of recrality was a magiftrate who liad a Lord of re grant of lands from the forereign, with royal jurific-gality. tion anacxed thereto. His civil jurifdidion was equal to that of a fleriff; his criminal extended to the four pleas af the cromm. He had a right to repledge or reclaim all criminals, fubject to his jurifdiction, from any other competent court, though it were the jufticiary itfelf, to his own. He had alfor right, according to the moft common opinion, to the fingle efcheat of all de-

Law of Scotiand. Stewart.

Bailie.

Prince of
Scotland.
nouncel perfons refiding within his juriddition, even though fuch privilege had not been exprefled in the grant of regelity.
5. The flewart was the magitrate appointed by the king over fuch regality lands as happened to fall to the crown by forfeiture, \&ic. and therefore the fewart's jurifdition was equal to that of a regality. The two liewartries of Kirkcudbright, and of Orkney and Zetland, make fines and countics by themelelves, and fend each a repefentative to pa: hament.
6. Where lands not ereated into a regality fell into
the king's hands, he appointed a bailie over them, whofe jurifdiction was equal to that of a fheriff.
7. By the late jurifdiction act, 20 Geo. II. all heritable regalities and bailieries, and all fuch heritable fheriftships and flewartries as were only parts of a fhire, are diffolved; and the powers formerly vefted in them are made to devolve upon fuch of the king's courts as thefe powers would have belonged to if the jurifdictions diffolved had never been granted. All heriffhips and Stewartries that were no part of a Chire, "where they had been granted, either heritably or for life, are refumed and annexed to the crown. No high theriff or flewart can hereafter judge perfonally in any caufe. One theriff or flewart-depute is to be appointed by the king in every thire, who mult be an advceate of three years ftanding; and whofe office as theriff or ftewart-depute is now by 28 Geo. II. held a.t vitans aut culpam.
8. The appanage, or patrimony, of the prince of Scotland, has been long erected into a regality jurifdiction, called the Principality. It is perfonal to the king's eldent fon, upon whofe death or fucceffion it returns to the crown. The prince has, or may have, his own chancery, from which his writs iffue, and may name his own chamberlain and other officers for receiving and managing his revenue. The vaffals of the prince are entitled to eleft, or to be elected, members of parliament for counties, equally with thofe who hold of the ctown.
9. Juftices of the peace are magiftrates named by the fovereign over the feveral counties of the kingdom, for the fecial purpofe of preferving the public peace. Anciently their power reached little farther than to bind over diforderly perfons for their appearance before the friyy council or jufticiary; afterwards they were authorised to judge in breaches of the peace, and in mott of the laws concerning public policy. They may compel workmen or labourers to ferve for a reafonable fee, and they can condemn mafters in the wages due to their fervants. They have power to judge in queftions of highways, and to call out the tenants with their cottars and fervants to perform fix davs work yearly for upholding them. It has been liec:'y, however, found by the court of feffion, that juttice ! yave no jurifdition whatever in common actions for debt. So that it no $\%$ feems fixed, that they are incompetent in fuch actions, except where they are declared competent by fpecial flatute.
to. Since the union, our juftices of the peace, over and above the powers committed to them by the laws of Scotland, are authorifed in exercife whatever belong to the office of an Englin julfice, in relation to the nu lic peace. From that time, the Scots and the Engli:! co:nmiffuns have run in the fome ftyle, which contioss rowers to inguire into and judge
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Part I
in all capital crimes, witchcraft, felonies, and feveral $\mathrm{L}_{3}$, others fipecially enumerated; with this limitation fub- South joined, of which juflices of the peace may laufally inquire. Two juftices can conftitute a court. Soecial Itatute has given the cognizance of feveral matters of excife to the juftices, in which their fentences are fonal. As to which, and the powers thereby veited in them, the reader muft of necellity be referred to the excile laws; it not falling withiu the plan of this work, to enter into fo very minute a detail as that would prove.
11. A borough is a body corporate, made up of ${ }^{\text {Buroug }}$ the inhabitants of a certain tract of ground, erected by the fovereign, with jurifdiction annexed to it. Boroughs are erected, either to be holden of the fovereign himfelf, which is the general cafe of royal boroughs; or of the fuperior of the lands ereAted, as boroughs of regality and barony. Boroughs royal have power, by their charters, to choofe annually certain office bearers or magitrates; and in boroughs of regality and barony, the nomination of magilfrates is, by their charter, lodged fometimes in the inhabitants, fometimes in the fuperior. Bailies of boroughs have jurifdiction in matters of deht, fervices, and queftions of polteifion betwist the inhabitants. Their criminal jurifdiction extends to petty riots, and recklefs fire-railing. The dean of guild is that magiftrate of a royal borough who is head of the merchant company; he has the cog. nizance of mercantile caufes within borough; and the infpection of buildings, that they encroach neither on private property, nor on the public flreets; and he may direct infuficient houfes to be pulled down. His jurifdiction has no dependence on the court of the borough, or bailie court.
12. A baron, in the large fenfe of that word, is one Barores who holds his lands immediately of the crown; and, as fuch, had, by our ancient conflitution, right to a feat in parliament, however fmall his freehold might have been. The leffer barons were exempted from the burden of attending the fervice of parliament. 'This exemption grew infenfibly into an utter difability in all the leffer barons from fitting in parliament, without election by the connty; though no flatute is to be found exprefsly excluding them.
13. To conflitute a baron in the ffrict law fenfe, his lands mult have been erected, or at leaft contirmed, by the king in liberam baroniam; and fuch baron had a certain juriddiction, both civil and criminal, which he might have exercifed, either in his own perfon, or by his bailie.
st. By the late jurifdiction act, the civil jurifdiction of a baron is reduced to the power of recovering from his vaffals and tenants, the rents of his lands, and of condemning them in mill fersices; and of judgmg in caufes where the debt and damages do not exceed 40: Aterling. His crimin 1 jurildition is, by the fame Intute, linited to affault, batteries, and other fralier offence, which may he pumithed by a fine not exceeding 20s. Herling, or by fetting the offender in the flocks in the day time not above three hours; the fine to be levied by poinding, or one month's imprifon: ment. The jurifdiction formerly competent to proprietors of mines, and coal or falt works, over their workmen, is referved; and alfo that which was competent to proprietors who had the right of fairs of markeis.
markets, fur correcting the diferders that might happen during their cominuance; provided they thall exercife no jurifdiction inferring the lofs of life or demembration.
15. The high contable of Scotland had mo fixed territorial jurifdiction, but followed the court ; and had, jointly wit, the marifchal, the cognizance of all crimes commitied within two leagues of it . All other confabularies were dependent on him : thefe had cafles, and fometimes boroughs, fubject to their jurifdiction, as Dundec, Montrofe, \& c. and among other powers, now little known, they had the right of exerciling criminal juriddiction within their refpective territories during the continuance of fairs. Bv the late jurifdiction act, all jurifdictions of conflabulary are dififolved, except that of high conftable.
16. The office of the Lyon king of arms was chiefly minifterial, to denounce war, proclaim peace, carry public mellages, \&c. But he has alfo a right of juriddiction, whereby he can punith all who ufurp arms contrary to the lave of arms, and deprive or fufpend meflengers, heralds, or purfuivants, (who are officers named by himfelf); but he has no cognizance of the damage ariling to the private party through the meffenger's fault. Melfengers are fubfervient to the fupreme courts of Seffion and Jufticiary; and their proper bufinefs is to execute all the king's letters either in civil or criminal caufes. They mult find caution for the proper difcharge of their duty qua mefiengers; and in cafe of any malverfation, or neglect, by which danage arifes to their employers, their fureties may be recurred upon for indemnification. Thefe fureties, horrever, are not anfwerable for the conduct of the meffenger in any other capacity but qua fuch; and therefore, if a meflenger is authorifed to uplift payment from a dehtor, and fails to account to his employer, the cautioner is not liable; his obligation extending only to the reqular and proper duties of the office in executing the diligence, or the like.
17. Our judges had, for a long time, no other fala. ries or appointments than what arofe from the fentences they pronounced. Our criminal judges applied to their own ufe the fines or iffues of their feveral courts; and regalities had a right to the fingle efcheat of all perfons denounced, who refided within their jurifdiction; and our civil judges got a certam proportion of the fum contained in the decree pronounced. But thefe were all proinbited upon regular falaries being fettied upon them.

## Sect. V. Of Ecclefiafical Perfons.

1. The pope, or bihop of Rome, was long acknowledged, over the weftern part of Chriltendom, for the head of the Chriftian church. The papal jurifdiation was abolinhed in Scotland anno 1560. The king was, by act t 669 , declared to have fupreme authority over all perfons, and in all caufes ecclefiaftical ; but this act was repealed by 1690 , as inconfiftent with Prefbyterian church government, which was then upon the point of being effablithed.
2. Before the reformation from Popery, the clergy was divided into fecular and regular. The fecular had a particular tract of ground given them in charge,
within which they crercifed the fatbral office of tiShop, prefbyter, or other church officer. 'The regulas clergy had no care of fou's; but were ticd down to refidence in their abbacies, priories, or other monafteries: and they got the name of regular, from tlie rules of mortification to which they were bound, according to the inftitation of their feveral orders. Upon the vacancy of any benefice, whether fecular or regular, commendators were frequently appointed to levy the fruits, as factors or ftewards during the racancy. The pope alone could give the higher benefices in commendam; and at lalt, from the plenitude of his power, he came to name commendators for life, and without any obligation to account. After the Reformation, feveral abbacies and priories were given by James VI. in perpetuan commendam, to laics.
3. Upon abolihting the pope's authority, the regular clergy were totally fupprelfed; and in place of alt the different degrees which diftinguilhed the fecular clergy, we had at frit only parochial preflayters or minifters and fuperintendants, who had the overfigh: of the church within a certain ditrict ; foon thereafter the church government became epifcopal by archbihops, bihops, \&:c. ; and after fome intermediate turns, is now Prebyterian by kirk fellions, preßbyteries, fynods, and general aflemblics.
4. Prelate, in our flatutec, fignifies a bilhop, abbot, or other dignified clergyman, who in virtue of his office had a feat in parlhament. Every bilhop had his chapter, which confifted of a certain number of the minilers of the diocefe, by whofe affiltance he managed the affairs of the church within that diftrict. The nomination of bilhops to vacant fees has been in the crown fince 5540 , though under the appearance of continuing the ancient right of election, which was in the clapter. The confirmation by the crown under the great feal, of the chapter's election, conferred a right to the fpirituality of the benefice; and a fecond grant upon the confecration of the bifhop elect, gave a title to the temporality; but this fecond grant fell foon into difufe.
5. He who founded or endowed a church was en- ${ }^{\text {Patronagn }}$ titled to the right of patronage thereof, or advocatio ecclefice; whereby, among other privileges, he might prelent a churchman to the cure, in cafe of a vacancy. The crefentee, after he was received into the church, had a right to the benefice propria jure; and if the church was parochial, he was called a parfon. The pope claimed the right of patronage of every kirk to which no third party could fhow a feecial title; and, fince the Reformation, the crown, as coming in place of the pope, is confidered as univerfal patron, where no right of patronage appears in a fubject. Where two churches are united, which had different patrons, each patron prefents by turns.
6. Gentlemen of eftates frequently founded colleges or collegiate churches; the head of which got the name of prosiof. under whom were ccrtain prebendaries, or canons, who had their feveral ftalls in the church, where they fung maffers. Others of leffer fortuncs founded chaplainries, which were donations granted for the finging of mafies for deceafed friends at particular altars in a church. Though all thefe were fuppecfied upon the Reformation, their founders continued pa-
trons of the endowments; out of which they were al. lowed to provide burfars, to be cducated in any of the univerlities.
7. Where a fund is gifted fur the eftablihment of a fecond minifter in a parifl where the cure is thought too beavy for one, the patronage of fuch benefice does not belong to the donor, but to him who was patron of the church, unlefs either where the donor has refersed to hinfelf the right of patrowage in the donation, or where he and his fuccefiors have been in the conflant ufe of prefenting the fecond minilter, without challenge from the patron. The right of prefenting incumbents was by 1690, c. 23 . taken from patrons, and vefted in the heritors and elders of the parith, upon payment to be made by the heritors to the patton of 600 merks; but it was again rellored to patrons, 10 An. c. 12. with the exception of the prefentation fold in purfuance of the former act.
8. Patrons were not fimply adminiftrators of the church; for they held the fruits of the vacant bencfice as their orn for fome time after the Reformation. But that right is now no more than a truft in the patron, who muft apply them to pious ufes within the parilh, at the fight of the heritors, yearly as they fall due. If he fail, he lofes his right of adminiftering the vacant ftipend for that and the next vacancy. The king, who is exempted from this rule, may apply the vacant flipend of his churches to any pious ufe, though not within the parilh. If one hould be ordained to a church, is oppofition to the prefentee, the patron, whofe civil right cannot be affected by any fentence of a church court, may retain the ftipend as vacant. Patrons are to this day entitled to a feat and burial place in the churches of which they are patrons, and to the right of all the teinds of the parilh not heritably difponed.
9. That kirks may not continue too long vacant, the patron muft prefent to the preibytery (formerly to the bifhop) a fit perfon for fupplying the cure, within fix months from his knowledge of the vacancy, otherwife the right of prefentation accrues to the prefbytery jure devoluto. Upon prefentation by the patron, the bihnop collated or conferred the benefice upon the prefentee by a writing, in which he appointed certain miniters of the diocefe to induce or inflitute bim into the church; which induction completed his right, and was performed by their placing him in the pulpit, and delivering to him the Bible and keys of the church. The bilhop collated to the churches of which himfelf was patron, pleno jure, or without prefentation: which he alfo did in menfal churches, whofe patronages were funk, by the churches being appropriated to him, as part of his patrimony. Since the Revolution, a judicial act of admiffion by the prefbytery, proceeding either upon a prefentation, or upon a call from the heritors and elders, or upon their own jus devolutum, completes the minifter's right to the benefice.
Provifions
for the re-
formed
slergy.
10. Soon after the Reformation, the Popifin churchmen were prevailed upon to refign in the fovereign's hands a third of their benefices; which was appropriated, in the firft place, for the fubfittence of the reformed clergy. To make this fund effectual, particular localities were affigned in every benefice, to the extent of a third, called the affimption of thirds; and for the farther fupport of minifters, Queen Mary made a grant
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in their favour of all the finall benefices not exceeding $L_{2 w}$ 300 merks. Bithops, by the aft which reftored them Scotia to the who!e of their benefices, were obliged to maintain the minillers within their olocefes, out o: the thirds; and in like manner, the laic titulars, who got grants of the tcinds, became bound, by their accepta. tion thereof, to provide the kirks within their erec. tions in competent 1 fipends.
11. But all thofe expedients for the maintenance of Commif the clergy having proved ineffectual, a commilition of fion ior parliament was appointed in the reign of James VI. planing for planting kirks, and modifying fipends to minifters kirks, va out of the teinds; and aftewards feveral other com-teinds, \& mitions were appuinted, with the more amole powers of dividing large parihes, erecting new ones, \&c. all of which were, in 170\%, transferred to the court of feifion, with this limitation, that no parifi fhould be dijjoined, nor nesi church erected, nor old one removed to a new place, without the confent of threefourths of the heritors, compuxing the votes, not by their numbers, but by the valuation of their rents uithin the parifh. The judges of feflion, when fitting in that court, are confidered as a commiffion of parliament, and bave their proper cierks, macers, and other officers of court, as fuch.
12. The loweft ftipend that could be modified to a stipeads miniter by the firll commifion, was 500 merks, or five chalders of rictual, uniefs where the whole teinds of the parih did not extend fo far: and the highelt was 1000 merks, or ten chalders. The parliament 1633 raifed the minimum to eight ehalders of victual, and proportionably in filver; but as neither the commifion appointed by that ast, nor any of the fubie. quent ones, was limited as to the maximum, the comsmifioners have been in ufe to atogment ftipends cons. fiderably above the old maximum, where there is fulticiency of free teinds, and the cure is burdenfome, or living expendive.
13. Where a certain quantity of ftipend is modified to a minilter out of the teinds of a parifh, without proportioning that ftipend amony the feveral heritors, the decree is called a decree of modificarion; but where the commiThoners alfo fix the particular proportions fayable by each beritor, it is a decree of madificatio. and locality. Where a rtipend is only modified, it is fecured on the whole teinds of the parith, fo that the mainifter can infift againft any one heritor to the full extent of his teinds; fuch heritor being always entitled to relief againft the reft for what he thall have paid above his juft thare: but where the ftipend is alfo localled, each heritor is liable in no more than his own proportion.
14. Few of the reformed minifters were, at firt, Manf. provided with dwelling houfes; mott of the Popifh clergy hasing, uson the firft appearance of the Reformation, let their manies in feu, or in long tack: minifters therefore got a right. in 1563 , to as much $0: 6$ thefe manfes as would ferve them, nutwithfanding fuch feus or racks. Where tiserc was no parfon's nor vicar's matife, one "'as to be built by the heritors, at the light of the bithop, (now the prebvitery), the charge not excceding 10001 . Scots, nor belo: 500 merks. Under a manfe are comprehended fable, barn, and byre, with a garden; for all which it is ufual :o allow half an acre of ground.

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15. Every incumbent is entitled at his entry to tave his marle put in good condition; for which ;urnore, the pretbytery may appoint a vifitation by tradefmen, and order climates to be laid before t'em of the funis necullary for the repairing, which they may proportion among the heritors according to their saluations. The prefibtery, after the manfe is made fufficient, cught, upon apphication of the heritors, to declare it a free manfe; which lays the incumbent under an obligation to uphold it in good condition durirg his incumbency, otherwife he or hi, executors thall be liable in damages; but they are not bound to make up the lofs arifing from the necelfary decay of the building by the walte of time.
lebe, and 16. All minifers, where there is any landward or country parilh, are, over and above their flipend, entitled to a glebe, which comprehends four acres of arable land, or fisteen fowms of pafture ground where there is no arable land (a fowm is what will graze ten theep or one cow) ; and it is to be detigned or marked by the bithon or prelbytery out of fuch kirklands within the parill as lie neareft to the kitk, and, in default of kitklands, out of temporal lands.
16. A right of relief is competent to the heritors, whole lands are fet off for the man'e or glebe, ayainft the other heritors of the parif. Manfes and giebes being once regularly defigned, cannot be feued or fold by the incumbent in prejudice of his fucceffors, which is in prattice extended even to the cafe where fuch alienation evidently appears profitable to the benefice.
17. Minifers, belide their glebe, are entitled to grafs for a horfe and two cows. And if the lands, cut of which the grafs may be defigned, either lie at a diflance, or are not fit for paflure, the heritors are to pay to the minifter 201 . Scots yearly as an equivalent. Miniters have alio freedom of foggage, pafturage, fuel, feal, divot, loaning, and free ifi and entry, according to ufe and wont : but what thefe privileges are, mutit be determined by the loca! cuilom of the fe. veral pazihes.
18. The legal terms at which finends become due to mainifers are Whitfunday and Michaelmas. If the incumbent be aemitted to his church before Whitfunday (till which term the corns are not prefumed to be fult ( fown), the has right to that whole year's stipend; and, if te is reccived after Whitfunday, and before Michaelmas, he is entitled to the half of that year; becaufe, though the corns were form before his cntry, he was admitted before the term at which they are prefumed to be reaped. By the fame reafon, if he dies or is tranfported before Whitfunday, he has right to wo part of that year; if hefore Michaelmas, to the half; and if not till afier Michaelmas, to the whole.
19. After the minifler's death, he executors have right to the annat; which, in the ferife of the canon law, was a right referved to the pope of the firft year's fruits of excry lenefice. Upon a threatened iniafion from England anno 1545, the annat was given Ly our parliament, notwithflanding this right in the pope, to the executors of fuch churchmen as flould fail in t, tatle in defence of their country: but the word anrat or ann, as it is now underflood, is the right which !aw gives to the executors of miniflers, of half
a year's benefice orer and abose what was due to the minititer himfelf for his incumbency.
20. The executors of a minifter need make up no title to the ann by confrmation: neither is the right affignable by the minifer, or affectable with his debis; for it never belonged to him, but is a merc gratuity given by law to thefe whom it is prefumed the deceafed could not fuficiently provide; and law has given it exprefsly to executors: and 'f it were to be governed by the rules of fucceffion in executory, the widow, in cafe of no children, would get one half, the o:her would go to the next of kin ; and where there are children, fle would be entitled to a third, and the other two thirds would fall equally among the children. But the court of feffion, probably led by the general practicc, have in this lafl cale divided the ann into two cqual parts; of which one goes to the widow, and the other among the children in capita.
21. From the great confidence that was, in the firf Juridiation. ages of Chrifianity, repofed in churchmell, dying per - ${ }^{-1}$ bilhops fons frequeatly committed to them the care of their ellates, and of their orphan children; but thefe were fimply rights of truft, not of iaridiation. The clergy foon had the addrefs to eflablifh to themfelves a proper juriflistion, not confined to pints of ecclefiatical right, but extending to queltions that had no concern with the church. Thes judged not only in teinds, patronages, teltements, breach of vow, fcandal, \&xc. but in queftions of marriage and divorce, becaufe marriage was a facrament; in tochens, becaufe thefe were given in confideration of marriage; in all quefions where an oath intervened, on pretence that oaths were a part of ieligious worlhip, \&c. As churchmen came, by the means of this extenfive jurifdiction, to be diverted from their proper functions, they conmitted the exercife of it to their officials or commifiaries : hence the commitary court was called the Lilbop's court, and curia Chrifianitatis; it was alfo thyled the confforial court; from confifory, a 1 :ame firlt given to the court of appeals of the Roman empcrors, and aftcrwards to the courts of julicature held by churchimen.
22. At the Reformation, all epifcopal jurifdiaion, Commifexercifed under the authority of the lifllop of Rome, arary. was atolitied. As the courfe of jullice in contifforial caufes was thereby ltopped, Q. Mary, befitcs naming a commiflary for every diocefe, did, by a fpecial grant, eftablifh a now commilfary court at Edinhurgh, confiffing of four judges or commiflaries. This coust is vefted with a double jurifdiction ; one diocefan, which is exercifed in the fpecial territory contained in the grant, viz. the countics of Edinburgh, IIaddington, Linlithgow, Peebles. and a great part of Sirilingflire; and another univerfal, by which the judges confirm the tellaments of all who die in foreign parts, and may reduce the decrees of all inferior commiflarice, provided the reduction be purfued within a year after the decree Bithops, upon their re-cfablifhent in the reigu of lames V1. were reltored to the right of naming their feveral commiflaries.
23. As the clergy, in time of Popery, affumed a jurifdiftion independant of the civil power or any fecular court, their ientences cculd be reviewed only by the pope, or judges delegated by him; fo that, with Scotland.
segard to the courts of Scotland, their jurifdiction was fupreme. But, by an act 1560, the appeals from the bifhops courts, that were then depending before the Roman confiftories, were ordained to be decided by the court of feflion: and by a pofterior act, 1609, the feffion is declared the king's great confillory, with power to review all fentences pronounced by the comunifaries. Neverthelefs, fince that court had no inherent jurifdiction in confiftorial caufes prior to this ftatute, and fince the flatute gives them a power of judging only by way of advocation, they have not, to this day, any proper confiftorial jurifdiation in the firt inflance; neither do they pronounce fentence in any cenfillorial caufe brought from the commiffaries but remit it back to them with inftructions. By the practice immediately fubfequent to the aft before quoted, they did not admit advocations from the inferior commiflaries. till the caufe was firf brought before the commiffaries of Edinburgh; but that practice is no:s in difufe.
24. The commiffaries retain to this day an exclufive poner of judging in declarators of marriage, and of the nullity of marriage; in actions of divorce and of non-adherence, of adultery, baflardy, and confirmation of teflaments; becaufe all thefe matters are fill confidered to be properly confintorial. Inferior commiffaries are not competent to queftions of divorce, under which are comprehended queftions of 'aftardy and adherence, when they have a connexion with the lawfulnefs of marsiage, or with adultery.
25. Commilfaries have now no power to pronounce decrees in abfence for any fum above 401 . Scots, except in caufes properly confiflorial : but they may authenticate tutorial and curatorial inventorics; and all bonds, contrats, \&c. which contain a claufe for regiftration in the books of any judge competent, and protefts on bills, alay be regiftered in their books.

## Sect. VI. Of Marriage.

1. Perfons, when confidered in a private capacity, are chiefly diftinguifhed by their mutual relations; as hufband and wife, tutor and minor, father and child, mafter and fervant. The relation of hubband and wife is conftituted by marriage; which is the conjunction of man and wife, vowing to live infeparably till death.
2. Marriage is truly a contract, and fo requires the conient of parties. Idiots, therefore, and furious perfons, cannot mariy. As no perfon is prefumed capable of confent within the years of pupillarity, which, by our law, lafts till the age of 14 in males, and 12 in females, merriage cannot be contracted by pupils; but if the married pair thall cohabit after puberty, fuch acquiefcence gives force to the marriage. Marriage is fully perfected by confent; which, wichout confummation, founds all the corjugal rights and duties. The confent requifite to marriage mult be de prafentio. A promife of marriage (fipulatio Sponfalitio) niay be refiled from, as long as matters are entire; butif any thing be done by one of the parties, whereby a prejudice arifes from the non-performance, the party reiiling is liable in damatyes to the other. The canovins, and after them our courts of jullice, explain a
copula fublequent to a promife of marriage into actual marriage.
3. It is not neceflary that marriage fhould be cele- $\underbrace{\text { Sovtar }}_{\text {Form of }}$ brated by a clergyman. The conlent of parties may ferm of be declared before any magillrate, or fimply before witneffes: and though no formal confent fhould appear, marriage is prefumed from the cohabitation, or living together at bed and board, of a man and woman who are generally reputed hufband and wife. One's acknowledgment of his marriage to the midwife whom he called to his wife, and to the minifter who baptized his child, was found fufficient prefumptive evidence of matriage, without the aid either of cohabitation or of habit and repute. The father's confent was, by the Roman law, effential to the marriage of children in familia: but, by our law, children may enter into marriage, without the knowledge, and even againft the remon. ftrances, of a father.
4. Marriage is forbidden within certain degrees of Forbidde blood. By the law of Mofes (Leviticus xviii.), which degrees. by the aet $1567 . \mathrm{c} .15$. has been adopted by us, feconds in blood, and all remoter decrees, may all lawfully marry. By feconds in blood are meant firit coufins. Marriage in the direet line is forbidden in infinitum; as it is allo in the collateral line, in the fpecial cafe where one of the parties is loco parentis to the other, as grand uncle, great grand uncle, \&c. with refpect to his grand niece, \& c. The fame degrees that are prohibited in confangurnity, are prohibited in affinity; which is the tie arifing from marriage bet:siat one of the married pair and the blood relations of the other. Marri- Other age allo, where either of the pasties is naturally unfit 8 nullity. for generation, or ftands already married to a third per- nullity. fon, is ipfo jure null.
5. To prevent bigamy and inceftuous marriages, Proclam? the church has introduced proclamations of banns; tion of which is the ceremony of publifhing the names and banns. defignations of thofe who intend to intermarry in the churches whele the bride and bridegroom refide, after the congregation is affembled for divine fervice; that all perfons uboknow any objection to the marriage may offer it. When the order of the church is obferved, the marriage is called regular; when otherwife, clandefine. Marriage is ralid when entered into in either of thefe ways; but when clandelline, there are certain penalties impofed upon the parties as well as the celebrator and witnefles.
6. By marriage, a fociety is created between the mar- Commuried pair, which draws after it a mutual communication nion of of their civil interefts, in as far as is neceflary for main- goods. taining it. As the fociety latts only for the joint lives of the fociiz; therefore rights that have the nature of a perpetuity, which our law ftyles heritable, are not brought under the partnerlhip or communion of goods; as a land eflate, or bonds bearing a yearly intereft: it is only moveable fubjects, or the fruits produced by heritable fubjects during the marriage, tbat become ccm . mon to man and wife.
7. The hulband, as the head of the wife, has the fus morrii fole right of managing the goods in communion, which is called jus maritio. This right is fo abfolute, that it bears but little refemblance to a right of adminiftering a common fulject. For the hubband can, in virtuc thereof, fell, or even gift, at his pleafure, the whole
goods

Law of goods fallimg under communion; and his creditors nay affect them for the payment of his proper debts: fo that the jus marifi carries all the characters of an affignation, by the wife to her hurband, of her moveable eltate. It arifes info jure from the marriage; and therefore needs no other conftitution. But a ftranger may convey an eflate to a wife, fo as it flall not be fubjest to the huband's adminiltration ; or the hufband himfelf may, in the marriage contract, renounce his jus mariti in all or any part of his wife's moveable effate.
8. From this right are excepted paraphernal goods, which, as the word is underfood in our law, comprehends the wife's wearing apparel, and the ornaments proper to her perfon; as necklaces, ear-rings, breait or arm jewels, buckles, \&c. Thefe are neither alienable by the hufband, nor affectable by his creditors. Things of promifcuous ufe to hulband and wife, as plate, medal=, \&c. may beconse paraphernalia, by the hulband": giving them to the wife, at or before marriage; but they are paraphernal only in regard to that hufband who gave them as fuch, and are efleemed common moveables, if the wife, whofe paraphernalia they were, be afierwards married to a fecond hufband; unlefs he thall in the fame mamer appropriate them to her.
9. The right of the humand to the wife's moveable e? ate, is burdened with the moveable debts contracted by her before marriage ; and as bis right is univerfal, fo alfo is his Euruen; for it reaches to her whole moveable debts, though they fhould far evceed her moveable eitate. Yet the huband is not conficlered as the true debtor in his wife’s debts. In all aetions for payment, fhe is the proper defender: the huiband is only cited for his isteref: that is, as curator to her, and adminiftrator of the feciety goods. As foon therefore as the marriage is difolved, and the fociety goods thereby fuffer a divinon, the hufband is no fatther concerncd in the thare belonging to his deceafed wife: and confeguently is no longer liable to pay her debts, which mult be recovered from her reprefentatives or her leparate eftate.
10. This obligation upon the hufband is, however, perpetuated againft him, (1.) Where his proper eftate, real or perfcnal, has been affected, during the marriage, by complete lega! diligence; in which cafe, the hufband muft, by the common rules of law, reliese his property from the burden with which it itands charged; but the utmonl diligence againg his perfon is not fufficient to perpetuate the obligation; nor even incomplete diligence againft his eftate. (2.) The hufband continues liable, even after the wife's death, in fo far as lie is lucrasus or profited by her eftate: Still, however, the law does not confider a hunend who has got but a moderate tocher with the wife as lucratus by the marriage; it is the excefs oniy which it confiders as lucrum, and that muft bef eftinated by the quality of the parties and their condition of life:- As he was as no time the proner debior in his rife's moveable debes; therefore, though he thould be lucratus, he is, after the difolutian, only liable for them fukfidiarie, i. e. if her own feparate eflate is not fufficient to pay them off.
11. Where the wife is debtor in that lort of debt, which, if it had been due to her, would have excluded Vol. XI. Part II.
the jus mariti, e. g. in bonds bearing interent, which, as we thall afterwards fee (clxiii. 4.), continues heritable as to the rights of hulband and wife, notwithfanding of the enactment of the ftatute $\mathbf{1 6 6 1}$, which renders them moveable in certain other refpeets, the hubband is liable only for the bygone interefls, and thofe that may grow upon the debt during the marriage; becaufe his obligation for her debts mut be commenfurated to the intereft he has in her eftate. It is the hufband alone who is liable in perfonal diligence for his wife's debts, while the marriage fubints: the wife, who is the proper debtor, is free from all perfonal execution upon them while fte is veflita viro.
12. The hulband by marriage becomes the perpe. The huftual curator of the wife. From this right it arifes, band is the 1. That no fuit can proceed againll the wife till the wife's curahutband be cited for his intereft. 2. All deeds, done ${ }^{\text {tor }}$ by a wife without the hubband's confent, are mull; neither can the fue in any action without the humand's concurrence. Yet, where the hubband refufes, or by reafon offorfeiture, \&c. cannot concur ; or where the action is to be brought againt the hubard himfelf, for performing his part of the marriage articles; the judge will authorize her to fue in her own name. The effects arifing from this curatorial power difcover themfelves. even tefore marriage, upon the publication of banns; after which the brice, being no longer fuijuris, can cointract no debt, nor do any deed, either to the prejudice of her future buband, nor even to her own. But in order to this, it is neceflary that the banns thall hate been publinged in the bride's parifi church as well as in that of her hufband.
13. If the hurband foould either withadraw from his Separate wife, or turn her out of doors; or if, continuing in alimony. family with her, he foould by fevere treatment endar. ger her life; the commiffaries will authorize a feparetion is menfa et shoro, and give a fep: ce alimony to the wife, fuitable to her hufhand's ellate, from the time of fuch feparation until either a reconciliation or a fentence of divorce.
14. Certain obligations of the wife are valid, not-What obliwithltanding her being fub cura mariti; cx. gr. obli-gations of gations arifing from delict ; for wives have no privilege the wife vato commit crimes. But if the punifhment refolves in- lid to a pecuniafy mulct, the exectition of it muft, from her incapacity to fulfil, be fufpended til] the difolution of the marriage, unlefs the wife has a feparate cftate exempted from the jus mariti.
15. Obligations arifing from contrad, affect either the perfon or the eftate. The law has been fo careful to protect wives while fub curc maris?, that all perfonal obligations granted by a wife, though with the hufband's confent, as bonds, bills, Ste. are null; with the following exceptions: (1.) Where the wife gets a feparate peculium or tlock, either from her father or a ftranger, for her own or her children's alimony, the may grant perfonal obligations in relation to fuch ifock: and by Aronger reafon, perfonal obligations granted by a wife are good, when her perfon is actually with. drawn from the hufhand's power by a judicial feparation. (2.) A wife's perfoial obligation, granted in the form of a deed, inter vizios, is valid, if it is not to take effect till her death. (3.) Where the wife is by the hufband proepofira nogorits, intrufted with the management cither of a particular branch of bufinefs or

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Rights a!fecting her eftate.

Donations

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Law of Scotlerd.

Inhabition againft a wife.
of his irbole afrairs, ail the contracts fine enters into in the excucie of her preppofitura are efectual, even though they be not reduced to writing, but nould arife merely wre, from furnilhings made to her: but fuci ouligations have no force againlt the wife; it is the hufband only, by whofe commifion the acts, who is thereby ouliged.
15. A wife, while the remains in family with her huiband, is confidered as praspafita negooiis domeficis, and confequently may proride things proper for the family; for the price whercof the hurband is liable, though they ii ould be mifapplied, or though the lufband thould have friven her money to proride them ellehurt his forture by high living, may wle the remedy of inhibition again her; by which all perfons are inter- pelled from contracting with her, or giving ler credir. After the completing of this diligence, wliereby the prapofitura falls, the wife camot bind the humband, unlefs fo: fuch reafonable furnimings as he camot inflruct that he provided her with aitumit. As every man, and confequently every hutband, has a right to remove his manacers at pleafure, inlibition may pafs at the fuit of the hufband againtt the wife, though he thould not offer to junfy that menfure by an atiual proof of the extravaga:ace or promun of her temper.
${ }^{1} \%$. As 10 rist ts granted by the wife afiecting her eflate, the has ho moveable eflate, eacept her paraplervolia; and theie the may alien or impignorate, with confent of her huband. She can, without the hufland, bequeati by teflament her thare of the goods in communicn ; but the canmot difpofe of them ionter rivus; for the herlelf has no proper right to them white the mariage fablits. A wife can lawfolly oulige herfelf, in relation to her heritable eflate, with confent of leer huiburd: for though her perfon is in fome fenfe funk by the marriage, the continues capable of holding a real eftate; and in fuch obligations her eflate is confidered, and not her perfon. A hulband, though he be curator to his mife, can, by lis acceptance or intervention, euthorize rights granted by her in his own faveur: for a lumeand's curatory differs in this refpect from the curatory of minors, for it is not merely intended for the wife's advantage, but is confidered as a mutual bericfit to both.
18. All donations, whether by the wife to the hufband or by the hufband to the wife, are revocable by the donor"; ut if the conor dies without revocation, the light becomes abfoute. Where the donation is not pure, it as not fubject to revocation: thus, a grant made by the huiband, in confequence of the natural oblegation that lies upon him to provide for his wife, is not ievocab? 4 , unlefs in fo far as it exceeds the meafure of a rationa: fetilenent ; neitlier are remuneratory grants revocible, winere mutual grants are made in confidera. tion of each other, except where an onercus catife is fimulated, or shere what is given lienc inde bears nu proportion to each other. All voluntary contracts of leparation, by hich the wile is provied in a yearly alimons, are effcciual as to the time pall, bu: revocable either by the hulband or wife.
Ratification 19. As wives are in tle lirongef degree Cubject to ay waves. the intimence os the ir hufbat $d$, thi d parties, in whote fave urs they in: d made \&ra"ts. "ere ${ }^{i}$ requ"ntly vesed With actions of reduttion, as if the grant had ween ex-
torted from the wife through the force or fear of the hubunc': 'lo fecure the ormates a cinnt this danger, batitications v:cie introduced, whereby the wife, appearing cefore a jutge, cicciares upon oath, her hufband soo prefent, shat hie was $n$ ot indaced to grant the deed ex stit metu. At wie's ratification is not ablolutely neccflary for fecuring the grantee: law indeed allows the wife to bring reduction of any detd the has not ratified, upon the head of force or fear; of which, if the bring furicent evidence, the deed will be fet afide; but if the tails in the proof, it will remain effectual to the receiver.
20. Niarriage, like other contracts, might, by the Difilut Roman law, be difiolved by the contrary conlent of pas- of marri ties; but by the law of Scutland, it cannot be diffolsed age, till death, except by divorce, proceeding either uporr the head of adultery or of wilfal defertion.
21. Marriage is diffolved by death, either swithir year and day from its being contracted, or after year and day. If it is diliolved within year and day, all rights granted in confideration of the marriage (unlefs guarded againit in the contract) become void, and things return to the fame condition in which they llood before the marriage; with this reftriction, that the huiband is confidered as a bona fide poftelior, in relation to what he has confumed upon the faith of liss right; but he is liable to repay the tocner, without any deduction, in confideration cई his family expence during the marriage. If things canot be reftored on both fides, equity hinders the reftoring of one party and not the other. In a cafe which was lately beiare the court of fefion, it was determined after a loing hearing in prefence, that where a marriage had been diffolved witl: in the year without a living child, by the death of the husband, the widow was entitled to be alimented out of an eflate of which he died poffeffed, though there were no conventional provifions ftipulated in favour of the wife.
22. Upon the difolution of a marriage, after year and day, the furviving hutband becomes the irrevocable proprictur of the tocher; and the wife, where the furvives, is entitled to her jointure, or to her legal provifions. She has alfo right to mourninge, tuitable to the buband's quality; and to alinony from the day of his death till the term at which her liferent provifion, cither legal or conventional, commences. It a living child be procreated of the marriage, the marriage has the fame effect as if it had lubfilted beyond the year. A day is adjected to the year, in majorem coideritiam, that it may clearly aprear that the joar itfelf is ela, led ; and therefore, the rumning of any part of the day, after the yenr, has the iame effect as if the whole were elapfed. The legal right of courtefy competent to the furvising heiband is explained below, $\mathrm{N}^{0}$ clas 28.
23. Divorce is fuch a feparation of married perfons, Divorce during their lives, as looles them from the nuptial tie, and leaves them at freedom to intermarry with others. But neither adultery, nor wilful delertion, are grounds which mulk recefiarily diffolve marriage; they are only hanoles, which the injued party may take hold of to be fiec. Cohabitation, therefore, by the injured party, after beins, in the knuwledge of the acts of adultery, imbilis a dafing from clie injury; and no divorce can procesd, which is carried on by collufion be-
aw of twist the parties, left, contrary to the firt inflitution of marriage, they might difengage themfelves by their orm confent; and though, after divorce, the guilty ferfon, as well as the innocent, may contraet fecond marriages; yet, in the cafe of divorce upon adultery, marriage is by fpecial ftatute ( 1600 . c. 20.) prohibited betwist the two adulterets.
2. Where either party has deferted from the other for four years together, that other may fue for adherence. If this has no effect, the church is to proceed, firt by admonition, then by excommunication; all which previous Ateps are declared to be a fufficient ground for purfuing a divorce. De prasi, the commiffarics pronounce fentence in the adherence, after one year's defertion; but four years muft intervene between the firft defertion and the decree of divorce.

25 . The legal effects of divorce on the head of defertion are, that the offending hufband thall reftore the tocher, and forfeit to the wife all her provifions, legal and conventional ; and, on the other hand, the offending wife thall forfeit to the hurband her tocher, and all the rights that would have belonged to her in the cale of her furvivance. This was alfo efteemed the rule in divorces upon adultery. But by a decifion of the court of feffion 1662 , founded on a tract of ancient decilions recovered from the records, the offending hulband was allowed to retain the iocher.

Sect. VIl. Of Minors, and their Tutors and Curators.

1. The flages of life principaliy diftinguithed in law rillarity, are, pupillarity, puberty or minority, and majority. A child is under pupillarity, from the birth to 14 years of age if a male, and till 12 if a ferale. Minority begins where pupillarity ends, and continues till majority; which, by the law of Scotland, is the age of 21 years complete, both in males and females: but minority, in a large fenfe. includes all under age, whether pupils or puberes. Becaufe pupils cannot in any degree act for themfelves, and minors feldom with difcretion, pupils are fut by lars under the power of tutors, and minors may put themfelves under the direction of curators. Tutory is a power and faculty to govern the perfon, and adminifter the eftate, of a pupil. Tutors are either nominate, of law, or dative.
2. A tutor nominate is he who is named by a father, in his teftament or other writing, to a lawful child. Such tuter is not obliged to give caution for the faithful difcharge of his office; becaufe his fidelity is prefuraed to have been fufficiently known to the father.
3. If therc he no nomination by the father, or if the tutors nominate do not accept, or if the nomination fa!ls by death or otherwife, there is a place for a subor of law. This fort of tutory devolves upon the next agnate; by which we underftand he who is neareft related by the father, though females intervene.
4. Where there are two or more agnates eçually near to the pupil, he who is entitled to the pupil's legal fucceffion falls to be preferred to the others. But as the law fufpects that te may not be over careful to preServe a life which ftands in, the way of his own interef, this fort of tuicr is excluded from the cuffody of the pupil's perion; which is commonly committed to the
mother, while a widow, until the pupil be feve:s years old ; and, in default of the mother, to the next cos. nate, i. e. the migheft relation by the rother. The tutor of las mult (by act 1774 ) be at lealt 25 years of age. He is ferved or declared by a jury of fworn men, who are called upon a brief iluing from the chamcery, which is directed to any judge having juridiction. Ie mull give fecurity tefore he enters upon the management.
j. If no tutor of law demands the ofice, any rerfon, cren a ftrançer, may apply for a tutory datize. But becaule a tutor in law ought to be allowed a comspetent time to deliberate whether he will ferve or rot, no tutory dative can be given till the elapting of a year from the time at which the tutor of law lad firf a right to ferve. It is the king alone, as the father of his country, who gives tutors dative, by his court ot exchequer; and by act 1672 , no gift of tutory can pals in exchequer, without the citation or confent of the nest of kin to the pupil, both by the father and mother, nor till the tutor give fecurity, recorcled in the books of exchequer. There is no room for a tutor of law, or tutor dative, winile a tutor nominate can be hoped for: and tutors of law or dative, even after they have begun to act, may be excluded by the tutor nominate, as foon as he offers to accept, unlefs be has exprelsly renounced the office. If a pupil be without tutors of any kind, the court of feffion will, at the fuit Judicial of any linfman, name a factor (fteward) for the ma.factor. nagement of the pupil's eitate.
5. After the years of pupillarity are over, the minor is confidered as capable of acting by himfelf, if he has conidence enough of his own capacity and prudence. The only two cales in which curators are im. Curators. poled upon minors are, (I.) Where they are named by the father, in a flate of healith. (2.) Where the father is himfelf alive; for a father is ipfo jure, without any fervice, adminiffrator, that is, both tator and curator of law to his children, in relation in whatever eftate may fall to them during their minority. This right in the father docs not extend to grandchildren, nor to fuch even of his immediate children as are forisfamiliated. Neither has it place in fuhjects which are left by a flranger to the minor exclufive of the father's adminittration. If the minor chonfes to be under the direction of curators, he muft raife and execute a fummons, citing at lealt two of his nest of kin to appear before his uwn judge ordinary, upon nine days warning (by aet 8555. ) At the day and p'ace of appearance, he offers to the judge a lift of thofe whom he intends for his curators: fuch of taem as refolsc to undertake the office mult fign their acceptance, and give caution; upon which an act of curatory is extracted.
6. Thefe curators are ftyled ad negoita; to ditinguifh them from another fort called curators ad lites, who are authorized by the judge to concur with a pupil or minor in aftions of law, either where he is without tutors and curators, or where his tutors and curators are parties to the fuit. 'This fort is not oblliged to give causion, becaufe they have no intermeddlisy with the minor's effate : they are appointed for a fpecial purpofe; and when that is over, their office is at an end. WhodebarWomen are capable of being tutors and curators undel red from tuthe following reftrictions: ( 1. ) The office of a fermale wry and cu.

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tutor or curator fally by her marriage, even though the nomination fhould provide otherwife; for the is no longer fui juris, and incapable of courfe of having another under her power. (2.) No woman can be tutor of law. Papits are (by act 1700 ) declared incapable of tutory or curatory. Where the minor has more tutors and curators than one, who are called in the nomination to the joint management, they mull all concur in every act of adnrinitration; where a certain number is named for a quorum, that number mult concur: where any one is named fine quo non, no act is valid without that one's fpecial concurrence. But if they are named without any of thefe limitations, the concurrence of the majority of the nominees then alise is fulhcient.
8. In this, tutory differs from curatory, that as pu-

Difference between tutory and curatory. pils are incapable of confent, they have no perfon capable of acting ; which defect the tutor lupplies: but a minor pubes can act for himfelf. Hence, the tutor fublcribes alone all deeds of adminitration: but in curatory, it is the minor who fubfcribes as the proper party; the curator does no more than confent. Hence alfo, the perfons of pupils are under the power either of their tutors or of their nearell cognates; but the minor, after pupillarity, has the difpofal of his own perfon, and may reide where he pleafes. In inoft other particulars, the natu:e, the powers, and the dutics of
Judictal in- the two offices, coincide. Both tutors and curators ventories.

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tulors and curators. muft, previous to their adminiffration, make a judicial inventory, fubfcribet by them and the nest of kin, before the minor judge ordinary, of his whole eftate perfonal and real; of which, one fubfrribed duplicate is to be kept by the tutors or curators themfelves; ancther, by the nest of kin on the father's fide; and a third by the next of hin on the mother's. If any eflate belonsing to the minor thall afterwards come to their knowledge, they muft add it to the inventory within two months after their attaining poffeflion thereof. Should they neglect this, the minor's debtors are not obliged to make payment to them : they may be removed from their offices as fufpected; and they are entitled to no allowance for the fums difburfed by them in the minor's affairs (act 1672 ), except the expence laid out upon the minor's entertainment, upon his lands and houfes, and upolis completing his titles.
9. Tuturs and curators camot grant leafes of the ninor's lands, to endure longer than their own office ; nor under the former rental, without either a warrant from the court of felfion, or fome apparent necelity.
10. They have power to fell the minor's moveables; but caunot fell their pupil's land eftate, without the authority of a judge: yet this rellraint reaches not to fuch alienations as the pupil could by law be compelled to grant, e. $g$. to renunciations of wadfets upon redemption by the reverfer; for in fuch cafe, the very tenor of his own right lays him under the obligation; nor to the rerewal of chariers to heirs; but the charter muff conmain no new right in favour of the heir. 'The alicnation, hosever, of heritage by a minor, with confent of his curators, is valid.
11. Tutors and curators cannot, contrary to the nasure of their truit, authorize the minor to do any deed for their own benefit; nor can they acquire any debt atlecting the minor's eflate : and, where a tutor or curator makes fuch acçuifition, in his own name, for a
leff fum than the right is entitled to draw, the bencfit thereof accrues to the minor. It feens, however, that fuch purchafe would be confidered as valid, provided it were bona fide acquired at a public fale; for in fuch cafe it occurs that the tutor or curator is in fact meliorating the fituation of his ward by enhancing the value of his property by a fair competition. In general, it feems to be the genius and firit of our law, that tutors and curators thall do every thing in their power towards the faithful and proper difcharge of their refpective offices.
12. By the Roman law, tutory and curatory, being Their o muncra publice, might be forced upon every one who gations had not a relcrant ground of excufe: but, with us, the perfons named to thefe offices may either accept or decline: and where a father, in liege pouflie (when in a flate of health), names certain perfons both as tutors and curators to his children, though they have acted as tutors, they may decline the office of curatory. Tutors and curators having once accepted, are liable in difigonce, that is, are accountable fur the confequences of their neglec̣t in any part of their duty from the time of their acceptance. They are accountable finguli in folidum, i. e. every one of them is anfwerable, not only for his own diligence, but for that of his co-tutors; and any one may be fued without citing the reft : but he who is condemned in the whole, has action of relief againt his co-tutors.
13. From this obligation to diligence, we may except, (1.) Fathers or adminiftrators-in-law, who, from the prefumption that they act to the befl of their poser for their children, are liable only for actunl istromiffions. (2.) Tutors and curators named by the father in confequence of the act 1696 , with the fpecial provifos, that they thall be liable barely for intromiffions, not for omifions; and that cach of them thell be liable only for himfelf, and not in folidum for the co-tutors: but this power of exemption from dilisence is limited to the eflate defeending from the father himfelf. Tutors or curators are not entitled to any falary or allowance for pains, unlefs a falary has been exprefsly contained in the teflator"s nomination; for their office is prefumed gratuitous.
14. Though no perfon is obliged to accept the office of tutor or curator; yet having once accepted, he cannot throw it up or renounce it without fufficient caule; but, if he fhould be guilty of milapplying the minor's money, or fail in any other part of his duty, he may be removed at the fuit of the minor's nest in kin, or by a co-tutor or co-curator. Where the mif- How tu conduct proceeds merely from indolence or inattention, ryand ra , the court, in place of removing the tutor, either join pire. a curator with him, or, if he be a tutor nominate, they oblige him to give caution for his palt and future mamagement.
15. The offices of tutory and curatory expire alfo by the pupil's attaining the age of pubetty, or the minor's attaining the age of 21 years complete; and by the death either of the minor, or of his tutor and curator. Curatory alfo expires by the marriage of a female minor, who becomes thereby under the coverture of her oun hurband. After espiry of the cifice, reciprocal actions lie at the inltance both of the tutors and curators, and of the minor. That at the inflance of the munor is called actio tutcle direfta, by which tie can com-
law of pel the tutors to account; that at the infance of the tutors, aftio tritcle contraria, by which the miner can be compelled to repeat what has been profi:ably expended duriag the adminitration : but this laft does not lie till atter accounting to the minor; for till then the tutors are prelumed intus habore to the effects in their own hands for aniwering their dibburfements.
16. Deeds either by pupils, or by minors having curators without their confert, are null ; but they oblige the granters in as far as relates to fums profitably ap. plied to their ufe. A ininor under curators can indeed make a teltament by himielf; but whatever is executed in the form of a deed inter rivos, requires the curator's confent. Deeds by a mincr who has no curacors, are as effectual as if he had had curators, and ligned them with their confent; he may even alion his hesitage, without the interpolition of a judge.
17. Minors may be rellored againf all deeds granted in their minority, that are huriful to them. Deeds, in themfelres void, need not the remedy of reftitution; but where hurtful deeds are granted by a tutor in his pupil's aftairs, or by a minor, who has no curators, as thefe deeds lubfint in law, reftitution is necellary: and even where a minor, having curators, executes a deed hurtful to himfelf with their confent, he has not only action againft the curators, but he has the benefit of reftitution againft the deed itfelf. The minor camnot be refto:ed, if he does not raife and execute a fummons for red:acing the deed, ex capitic minorenniatis et lajonis, befure he be 25 years old. Thefe four years, between the arge of 25 and 25 , called quadriennium uile, are indulged to the minor, that he may have a seafonable time, from that period, when he is firt prefurned to hae the perfect ufe of his reafon, to confider with Jimfelf what deeds done in his minority have been truly prejudicial to him.
18. Queltions of roflitution are proper to the court of fetlion. Two things mut be proved by the minor, in order to the reduction of the deed: (I.) That he was minor when it was figned: (2.) That he is hurt or lefed by the deed. This lefion mintit not proceed merely from accident; for the privilege of retitution was not intended to exempt minors from the common misfortures of life ; it muft be owing to the imprudence or negligence of the minur, or his curator.
19. A minor cannot be reflored againt his own delif or fraud; e. g. if he fhould induce one to bargain with him by faying he was major. (1.) Reititution is excluded, if the ninor, at any time alter majority, has approved of the deed, either by a formal ratification, or tacitly by layment of intoreft, or by other acts inferring approbation. (2.) A minor, who has taken himbleif to hufnefs, as a merchant-fhoplieeper, \& c. cannot Le $r$ flored againft any deed granted by him in the cour'e of that bufnefs, efpecially if he was proximus majoremminti at figning the deed. (3.) According to the more common opinion, a minor cannot be reftored in a queftion againft a minor, un!efs lome grols unfairnefs thall be qualifed in the bargain.
20. The privilege of reftitution does not always die with the minor himfelf. (I.) If'a minor fucceeds to a minor, the time allowed for reffitution is governed by the minority of the heir, no: of the anceftor. (2.) If a minor fucceeds to a major, who was not full 25 , the privilege continues with the heir during his minority;
but he cannot avail himfelf of the anmi usile's, except in lo far as they were unespired at the ancefton's death. (3.) If a major fucceeds to a minor, he has only the quadrienniam utile after the minor's death, and if he fucceeds to a major dying within the quadriennium, no more of it can be profitable to him than what remained when the anceltor died.
21. No minor can be compelled to flate himfelf as hizar nons a defender, in any action, whereby his heritable eftate tenetur plaflowing from alcendants may be evicted from him, by citare. one pretending a preferable right.
22. Whis privilege is intended merely to fave uninors from the necelity of difputing upon queftions of preference. It does not therefore take place, (1.) Where the action is purfued on the father's fallehood or delict. (2.) Upon his obligation to convey heritage. (3.) $\mathrm{O}_{1}$ his liquid bond for a fum of moncy, though fuch action thould have the effect to carry oft the minor's eftate by adjudication. (4.) Nor in actions purfued by the minor's fuperior, upou feudal cafualties. (5.) This privilege cannot he pleaded in bar of an action which had been firlt brought againft the father, and is only continued againll the minor; nor where the father was not in the peaceable pofleftion of the heritable fubject at his death. Before the minor can plead it, he mult he lerved heir to his father. The pertons of pupils are by fid aft 605 protedted from inprifonment on civil debts.
23. Curators are given, not only to minors, but in Curators of general to every one who, either through defect of fidiots and judgement, or mitnefs of difpofition, is incapable of fons. rightly managing his own aftairs. Of the firtt fort, are idiots and furious perfons. Idiots, or farut, are entirely deprived of the faculty of reafon. The clittemper of the furious perfon does not confit in the defect of reafon; but in an overheated imagination, which obItructs the application of reafon to the purpofes of life. Cu:ators inay be alfo granted to lunatics; and even to perfons dumb and deaf, though they are of found judue. ment, where it appears that they camot exert it in the management of bufinefs. Every perfon, who is come of age, and is capable of acting rationally, has a natural right to conduct his own affairs. The only regular way, therefore, of appointing this fort of curators, is by a jury lummoned upon a brief from the chancery; which is not, like the brief of common tutory, directed to any judge ordinary, but to the judre of the fpecial territory where the perfon alieged to be fatuous or furious refides; that, if he is truly of found judrement, he may have an opportunity to oppofe it: an 1 for this reafon, he ought to be made a party to the brief. The curatory of idiots and furious perions belongs to the nearell agnate; but a father is preferred to the curatory of his fatuous for, and the hufoand to tbat of hi, fatuous wite, before the agnate.
24. A claufe is inferted in the brief, for inquirins how long the fatuous or furious perfon has been in that condition: and the vordict to be pronounced by the inquelt has a retrofjective effect: for it is declared a fuficient ground, without further evidence, far redu. cing all deeds granted after the period at which it appeared by the proof that the fatuity or furiofity began. But, as fatuous and furious perlons arc, by their very Itate, incapable of being obliged, all deeds dons by them may be declared veid, upon proper evidence of

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Law of their fatuity at the time of figning, though they fhould
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25 . We have fome few infances of the fovereign's giving curators to idiots, where the next agnate did not clain ; tut fuch gifts are truly deriations from our las, fuce they pafs without any inquiry into the flate of the perfon upon whom the curatory is impofed. Hence the curator of law to an idiot ferving quanciocun${ }_{2} u e$, is preferred, as foon as he offers himfelf, before the curator-dative. This fort of curatory does not determine by the lucid intervals of the perfon fub cura; but it cxpires by his death, or perfect return to a found judzement ; which laft ought regularly to be declared by the fentence of a judge.
26. Perfons, let them be ever fo profure, or liable to be impofed upon, if they have the exercife of reafon, can effectually oblige themfelves, till they are fettered by law. This may be done by Interdition, which is a legal reftraint laid upon fuch perfons from figning any deed to their own prejudice, without the confent of their curators or interdictors.

27 . There could be no interdiction by cur ancient practice, without a previous iniquiry into the perfon's condition. But as there were few who could bear the thame that attends judicial interdiction, however, neceffary the reftraint might have been, roluntary interdiction has received the countenance of lax; which is generally executed in the form of a bond, whereby the granter obliges himfelf to do no deed that may affect his eftate, without the confent of certain friends thercin mentioned. Though the reafons inductive of the bond frould be but gently touched in the recital, the interdiction ftands good. Voluntary interdiction, though it be impofed by the fole act of the perfon interdicted, cannot be recalled at his pleafure : but it may be taken off, (1.) By a fentence of the court of feflion, declaring, either that there was from the beginning no fufficient ground for the reftraint , or that the party is, fince the date of the bond, become rei fui providus. (2.) It falls, even without the authoriiy of the lords, by the joint aat of the perfon interdicted, and his interdictors, concurring to take it off. ( 3 .) Where the bond of interdiction requires ascertain number as a quorum, the reftraint ceafes, if the interdicors thall by deaih be reduced to a leffer number.
28. Judicial interdiction is impofed by a fentence of the court of fefiicn. It commonly proceeds on an a ation brought by a near kinfman to the party; and fometimes from the nobile officium of the court, when they perceive, during the pendency of a fuit, that any of the litigants is, from the facility of his temper, fubject to impofition. This fort mull be taken off by the authority of the fame court that impofed it.
29. An interdiction need not be ferved againt the perfon interdicted ; but it miult be executed, or publifhed by a meflenger, at the market crofs of the jurifdiction where he refides, by publicly reading the interdiction there, after three oyeffes made for convocating the lieges. A copy of this execution mult be affixed to the crofs; and thereafter, the interdiction, with its execution, muft (by the act 1581 ) by regifered in the books both of the jurildiation where the perfon interdicted refides and where his lands lie, or (by the act 1600 ) in the general regiter of the feffion, with in $4^{\circ}$ days from the publication. An interdiation, before
it is sevifercu, has no effect againnt third parties, Law of though they thould be in the private knowledge of $\underbrace{\text { Scotlang }}$ it; but it operazes againft the interdictors themfelvec, as foon as it is delivered to them.
3ว. An interdiction, duly regitered, has this effect, Effecto that all deeds done thereafter, Sy, the perion interdicted, withont the confert of his interdictors, affecting his heritable ellate, are fubiect to reduction. Regiitration in the general regiller fecures all his lands from alienation, wherever they lie; but where the interdiction is recorded in the regiler of a particular fhire, it covers no lands except thefa fituated in that fhire. But perfons interdicied have full power to difpofe of their moveables, not ouly by tellament, but by prefent deeds of alienation: And creditors, in perfonal bonds granted after interdiction. may ufe all execution againft their debior's perfon and moveable eftate : fuch bonds being only fubject to reduction in fo far as diligence againtt the heritable eftate may proceed upon them.

3 3 . All oncrous or rational deeds granted by the perfon interdicted, are as effequal, even without the confent of the interdictors, as if the granter had been laid under no reftraint; but he cannot alter the fuccelfion of lis heritable eftate, by any fettlement, let it be ever fo rational. No deed, granted with confent of the interliarors, is reducible, though the frongeft lefion or prejudice to the granter thould appear: the on1 y remedy competent, in fuch cafe, is an action by the granter againit his interdictous, for making up to him what he has lof through their undue confent. It is no office of in part of the duty of interdictors to receive fums or ma-terdictors. mage any cfate ; they are given merely ad auctoritatem preffandam, to interpofe their authority to reafonable deeds: and fo are accountable for nothing but their fraud or fault, in confenting to deeds hurfful to the perfon under their care.
32. The law concerning the flate of children fallsLawful next to be explained. Children arc either born in wed-clildren. leck, or out of it. All childaren born in lawful marriage or wedlock, are prefumed to be begotten by the perfon to whom the mother is married; and confequently to be lawful children. This prefunption is fo frongly fouaded, that it cannot be defeated but by direct evidence that the motber's huiband could not be the father of the child, e. 5. where he is impotent, or was abfent from the wife till within fix lunar months of the birth. The canonifts indeed maintain, that the concurring teftimony of the hurband and wife, that the child was not procreated by the hubband, is fufficient to elide this legal prefumption for legitimacy : but it is an agreed point, that no regard is to be paid to fuck tellimony, if it be made after they have owned the chiid to be theirs. A father has the abfolute right of difpoling of his children's perfon, of directing their education, and of moderate chantifement ; and even after they become puberes, he may compel them to live in family with him, and to contribue their labour and indurtiry, while they continue there, towards his fervice. A child who gets a feparate fack from the father for carrying on any trade or emplorment, even though he flould continue in the father's houle, may be laid to be emancipated or forisfamiliated, in fo far as it concerns that flock; for the protits aifing from it are his own. Yorisfamiliation, when taken in this fenfe, is alfo infer-

Lave of red vo dic c... *s maniase, or by his living in a feparate howe, with i.., fother's permillion or good will. Children, aftc, thcir tuin . e of twenty-one years, become, according to the zeriemal opinion, their oxn mafers; and from that period are bound to the father only hy the natural tics of duty, aficetion, and gratitude. The natual obligations between parents and children to maintain each other, are explained afterwards, $\mathfrak{N o}^{\text {cosxiii. }}$ 廿.
33. Children born out of wedlock, are flyled natural chilaren, or baflards. Baftards may be legitimarted or made lawful. (t.) By the fubfequent intermarriage of the mother of the child with the father. And this fort of legitimation entilles the child to all the rights of lawful children. The fubfequent marringe, which produces legitimation, is confidered by the law to have been entered into when the child legitimated was begoten; and lience, if he be a male, he exchudes, by his right of primogeniture, the fons proereated after the marriage, from the fucceilion of the father's henitage, though the fons were lawful children from the birth. Hence, alfo, thofe cliildren only can be thus legitimated, who are begoten of a woman whom the faher might at that peitod have lawfully married. (2.) Bathards are legitimated by letters of legitimation from the forercign. No chaxii. 3 .
34. As to the power of maflers over their fervants: All fervants norr cnjoy the fance rights and privileges with other fubjects, unlefs in fo far as they are tied down by their engagements of fervice. Servants are either necellary or voluntart. Neceflary are thofe whom layr obliges to work without wayes, of whom immediately. Voluntary fervants engage without compulfion, either for mere fubfiltence, or alfo for wages. Thofe who earn their bread in this way, if they thou'd fland off from engaging, may be compelled to it by the jufices of the peace, who have poyer to fix the rate of their trages.

3j. Colliers, coal-bearers, falters, and other perfons necellary to colliers and falt w:orts, as they are particularly defcrihed by act 1661 , were formerly tied down to perpetual fervice at the works to whicls they hat once entered. Upun a fale of the works, the right of their fervice cas transferred to the nes wropristor. A!l. reflons were prolibited to receive them into t' cir fervice, whout a tel'imonial from their lat mafter; and if the drfetted to another sork, and :sere redemated wislin a year thereater, he who had received them was ribliged to return them within twenty-four huars, urder a pealaly. But though the propiietor the uld reglect to require the ceferter "ithin the y-ar, he did not by that thort birefcription, lofe his property in him. Col"iers, \&c. where the colliery to which they were reAricted "as eiher given up, or sot funcient for their maintenance, might laisfu:1ly engage with otherc; but if that work thould be again fet a going, the proprit. tor mi he reclain them hark to it.
36. But ! y I Gm . Ill. C 28 . thefe refrai .ts. the only remathon wiftigese flaces in the lay nof scotand, are alrogated; and. At the if duly 175 , a ill col liers, coal-baress, and ater, are decta"ed to be tmon tl:e fame froting "ith cat r fervants or labeures. The

 fietdom, according to the age of ite pution.

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$3 \%$. The poor make the loweft clafs or order of perfons. Indigent children may be compelled to ferve any of the King's fubjects without wages, till the age of thirty years. Vagrants and tlurdy beggars may be alfo compelled to ferve any manufacturer. And becaufe few perfons were willing to rcccive them into their fervice, public workhoufes are ordained to be built for fetting them to work. The poor who cannot work, mult be maintained by the parifhes in which they were born; and where the place of their nativity is not known, that burden falls upon the parifhes where they have had their moft common refort, for the three vears immediately preceding their being apprehended or their applying for the public charity. Where the contributions collected at the claurches to which they belong are not fufficient for their maintenance, they are to receive badges from the minifter and kirk feflion, in virtue of which they may ain alns at the dwellinghoufes of the inhabitants of the parill.

## Chap. II. Of Things.

Tife things, or fubjects, to which perfons have right, are the fecond object of law.

Sect. 1. Of the Dirifon of Rights, and the foieral clxii.
reays by which a Right may be arquired.

1. The right of enjoring and difpofing of a fubjeet at Property. one's pleafure, is called property. Proprietors are reftrained by law from ufing their property emulonily to their neighbour's prejadice. Every ltate or fovereign has a power over private property, called, by fome lawyers, dominium eminens, in vitue of which, the proprietor may be conpelled to lell his property for an adequate price, where an evident utility on the part of the public demands it.
2. Certain things are by nature itfeif incapable of Things inappropriation; as the air, the light, the ocean, \& c. ; capable oir none of whicla can be brought under the power of any appropriaone perfon, though their ufe be common to all. Others are ly lass exem?:ed .um private commerce, in relpect of the ules to which thy are detlined. Of this latt hind are, (1.) Res publice, as navigable rivers, hishways, brideces, \&c. the right of which is welled in the king, chiedy tor the bene it of his people, and they are calied regalia. (i) hes univerfatios, thing wher belong in property to a particular corporation or liciety, and where wef is common to ever: indivseasl in it, but buth property and ule are fuoject to the regulations of the fociety; as town houtes, corpuration halls, market places, churchyads, \&ic. The lands or cther revenue Lelonging to a corporation do not fall under this clafs, Isut are juris privati, quant the corpuration.
3. ir perty ins be acquired, either by occupation travs of or accelfon; and transtence by tradition or prefertption: quiring
 falls to be exphasied uncer a cparat title. Occur : roox, or occurars, is the approptiating of things which have no vivner, by angrelaendnag al,em, or foizing theis ponterion. "lhis was the wignal method of acquering pronerto : and conti: wet, under cortorn te-
 efl, fit occiepanios: but it can havo no ruom intto teu!?l plan,

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plan, by which the king is looked on as the original proprietor of all the lands within his dominions.
4. Even in that fort of moveable goods which are prefumed to have once had an owner, this rule obtains by the law of Scotland, פuod nullius eft, fit domeni regis. Thus, the right of treafure hid under ground is not acquired by occupation, but accrues to the king.Thus alfo, where one finds frayed cattle or other moveables, which have been loft by their former owner, the finder acquires no right in them, but mutt give public notice thereof; and $i i$, within year and day after fuch notice, the proprietor does not ciaim his goods, they fall to the king, Geriff, or other perfons to whom the king has made a grant of fuch efcheats.
5. In that fort of moveables which never had an owner, as wild beafts, fowls, filhes, or pearls found on the fhore the original law takes place, that he who firft apprehends, becomes proprictor; infomuch, that though the right of hunting, fowling, and fifhing, be seftrained by liatute, under certain penalties, yet all game, even what is catched in contravention of the law, becomes the property of the catcher (unlefs where the confilcation thereof is made part of the penalty), the contravencr being obnoxious, however, to the penal enactment of the tatutes in confequence of his tranfgreliion. It was not for a long time a fised point whether a perfon, though pollefled of the valued rent by law entitling him to kill game, could hunt upon ancther perfon's grounds without confent; but it was lately found by the court of feflion, and affirmed upon appeal, that he could not; it being repugnant to the idea of property, that any perfon, however qualified, thould have it in his power to traverfe and hunt upon another's grounds without confent of the proprictor. Although certain things became the property of the firft occupant, yet there are others which fall not under this rule. Thus, whales thrown in or kilied on our coalls, belung neither to thofe who kill them, nor to the proprietor of the grounds on which they are caft ; but to the king, providing they are fo large as that they cannot be drawn by a wane with fix oxen.
6. Accrsston is that way of acquiring property, by which, in two things which have a connexion with, or dependence on, one another, the property of the principal thing draws after it the property of its acceffory. Thus the owner of a cow becomes the owner of the calf; a houle belongs to the owner of the ground on which it flands, thougin built with materials belonging to and at the charge of another; trees taking root in our ground, though planted by another become ours. Thus alfo the infenfible addition made to one's ground by what a river wafhes from other grounds, (which is called allurio), accrues to the malter of the ground which receives the addition; but where it happened that a large piece of ground was disjoined and annexed to another perfon's by the force of a river or any other accident, and which was by the Romans called avelfio, they confidered the owner's right of property fill to fubfin, $\oint=1$. Infl. de rer. divif.; and it is probable that, in a fimilar cafe, our courts would countenance the diftinction. The Romaus excepted from this rule the cafe of paintings drawn on another man's board or canvas, in confideration of the excellency of the art; which exception our practice has for a like rcalon extended to fimilar cafes.
7. Under acceffon is compreheaded Spacificirion; by which is meant, a perfon's making a new fecies or fubject, from materials belonging to another. Where specifica the new fecies can be again reduced to the matter of coon. which it was made, law confiders the former mafs as ftill exilting; and therefore, the new fpecies, as an acceflory to the former fubject, belongs to the proprietor of that fubject : but where the thing made camot be fo reduced, as in the cafe of uine, which cannot be again turned into grapes, there is no place for the fictio juris; and therefore the workmanihip oraws after it the property of the materials. But the perfon who thus carries the property from the other is bound to indemnify him accurding to the true value; and in cafe it was done mala fide, he may be made liable in the pretium affictionis or utmof value.
8. 'Though the new fpecies ftrould be produced from commix. the Commistion or confufion of different fublancestion. belonging to different proprietors, the fame rule holds; but where the mixture is made by the common confent of the owner, fuch confent makes the whole a conmon propery, according to the thares that each proprietor had formerly in the feveral fubjects. Where things of the faine fort are mixed without the confent of the proprietors, which cannot again be feparated; e. g. two hog fheads of wine, the whole likewife becomes a common property; but, in the after divifion, regard ought to be had to the different quality of the wines : if the things fo mixed admit of a feparation, e. g. two flocks of theep, the property continues difinet.
9. Property is carried from one to another by Tra-Tradition. DITION ; which is the delivery of poffelfion by the proprietor, with an intention to transfer the property to the receiver. Two things are therefore requifite, in order to the tranimitting of property in this way: 1. The intention or conlent of the former orner to transfer it on fome proper title of alienation, as fale, exchange, gift, \&c. (2.) The actual delivery in purfuance of that intention. The firll is called the carfa, the other the modus transforendi dominii: which laft is fo neceflary to the acquiring of property, that he who gets the lait right, with the firft tradition, is preferred, according to the rule, Traditionibus, non nudis pactis, transferuntur rorum dominia.
10. Tradition is either real, uhere the ipfa corpora of moveables are put into the hands of the receiver; or fymbolical, which is ufed where the thing is incapable of real delivery, or even when actual delivery is only inconvenient. Where the poffeffion or cuftody of the fubject has been before with him to whom the property is to be transferred, there is no room for tradition.
11. Poffeffion, which is effential both to the acruif-Pofteffion; fition and enjoyment of property, is defined, the detention of a thing, with a defign or animus in the detainer of holding it as his own. It cannot be acquired by the fole act of the mind, without real detention; but, being once acquired, it may be continuce folo animo. Poffelfion is either natural. or civil. Natural poffeffion natural, is, when one poffefles by himfelf: thus, we poffer lands by cultivating them and reaping their fruits, houfes by inhabiting them, noveables by detaining them in our hands. Civil poffelifon is our bolding the theng, either by the fole act of the mind, or by the lauds of another

Law of who holds it in our name : thus, the owner of a thing sotland. lent poffefles it by the bonower; the proprictor of lands, by his tackiman, trultee, or lleward, \&c. 'lhe fame fubject cannot be poffeffed entirely, or in folidum, by two different perfons at one and the fame time: and therefore poffelfion by an act of the mind ceales, as foon as the natural poffefion is fo taken up by another, that the former polfefior is not fuffered to re-enter. Yet two perfons may, in the judgement of law, poffefs the lame fubject, at the fame time, on different rights: thus, in the cafe of a pledge, the creditor pofielles it in his own name, in virtue of the right of impignoration ; while the proprietor is conildered as poilcting, in and through the creditcr, in fo far as is necelfary for fupporting his right of property. The fame doqtine holds in liferenters, tackfmen, and, generally, in every cafe where there are rights affecting a fubjeit diffinct from the property.
12. A bona fide pofiefor is he who, though he is nat really proprietor of the fubjea, yet believes himfelf proprietcr on probable grounds. A mala fide pofieflor is he who knows, or is prefumed to know, that what he por. feffes is the property of another. A poificfor bona fide acquired right, by the Roman law, to the fruits of the fubject polfeffed, that had been reaped and confumed by himelf, while he belicved the fubjeets his own. By our cuftoms, perception alone, without confumption, fecures the poffefifor: nay, if he has fo:m the ground, while his bona fides continued, he is entitled to reap the erop, propter curam ct culiuran. But this doatrine does not reach to civil fruits, e. g. the intereft of money, which the bona fide recciver muff reflore, together with the principal, to the owner.
13. Bona fides neceflarily ceafeth by the confcientia rei alience in the poiferior, whether fuch confciounefs fhould proceed from legal interpellation, or private knowledge. Mala fides is fometimes induced by the true owner's bringing his action againt the poffeflor, fometimes not till litificonteftation, and, in cafes uncommonly favourable, not till the fentence be pronounced againft the poffeffor.
14. The property of moveable fubjects is prefumed by. the bare act of pofiefion, until the contrary be proved; but poffiefion of an immoveable fabject, though for a century of years together, if there is no feifin, does not create even a prefiumptive right to it : Nulla refina, nulla terra. Such fubject is confidered as caduciary, and fo accrues to the fovereign. Where the property of a fubject is conteffed, the laviful poffeflor is entitled to continue his poffeflion, till the point of right be difcuffed ; and, if he has loft it by force or ffealth, the judge will upon fummary application, immediately reflore it to him.
15. Where a poffeffor has feveral rights in his perfon, affecing the fubiect pofieffed, the general rule is, that he may afcribe his poffeffion to which of them he pleafes ; but one cannot prefribe his poffeffion to a title other than that on which it commenced, in prejudice of him from whom his title flowed.

## -SEct. II. Of Heriable and Moveable Righs.

claxii.

1. For the better underflanding the doctrine of this title, it mulf be known, that by the law of Scolland, and indeed of moft nations of Europe fince the intro-

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duction of feus, whesever there ate two or more in the fame degree of confanguinity to one who dies in- Scotiord. teftate, and who are not all females, fuch rigine belons. ing to the deceafed as are either properly fendal, or have any referablance to feulal rights, defcend wholly to nne of them, who is confidered as his proper lieir; the others, who have the name of nest of kin er executors, mult be contented with that portion of the eftate which is of a more peridhable nature. Hence has arifen the divifion of rights to be explained under this title: the fubjects defcending to the heir are $1 l y l e d ~ h o r i t a b l e ; ~$ and thofe that fail to the next of kin moveaile.
2. All rights of, or affecting lands, under which are Divition of comprehended houfes, mills, fillings, teinds; and all right into rights of fubjects that are findo annexa, whether com-heritable pleted by feifin or not, are heritable ex fua natura. On and movethe other hand, every thing that moves itfelf or can be moved, and in general whatever is not united to land, is moveable; as houfehold furniture, corns, catile, call, arrears of rent and of interent, even though they thould be due on a right of annualrent; for though the arrears laft mentioned are fecured on land, yet being prefently payable, they are confidered as call.
3. Debts, (nomina delitarum), when due by bill, promiffory note, or account, are moveable. When conflituted by bond, they do not all fall under any one bead; but are divided into heritable and moveable, by the following rules. All debts conftituted by bond bearing an obligation to infeft the creditor in any heritable fubject in fecurity of the priacipal fum and annualrent, or annualrent only, are heritable; for they not only carry a yearly profit, but are fecured upon land.
4. Bonds merely perfonal, though bearing a claufe of intereit, are, by act 166 t , declared to be moveable as to fuccelion; i. e. they go, not to the heir, but to the next of kin or executors; but they are heritable with refpect to the filk, and to the rights of hufband and wife ; that $i$ s, though by the general rule, moveable rights fall under the communion of goods confequent upon marriage, and the moveables of denounced perfons fall to the crown or filk by fingle efcheat, yet luch bonds do neither, but are heritable in both re. fpects.

5: Bonds taken payable to heirs and alfignees, fecluding executors, are heritable in all refpeets, from the deftination of the creditor. But a bond, which is made payable to heirs, without mention of executors, defcends, not to the proper heir in heritage, though heirs are mentioned in the bond, but to the executor; for the word heir, which is a generic term, points out him who is to fucceed by law in the right; and the execu. tor, being the heir in mobilibus, is confidered as the perfon to whom fuch bond is takein payable. But where a bond is taken to heirs male, or to a feries of heirs, one after another, fuch a bond is heritable, becaufe its deftination neceflarily excludes executors.
6. Subjects originally moveable become heritable, How move, (1.) By the proprictor's deftination. Thus, a jewel, able rights or any other moveable fubject, may be provided to the become heheir, from the right competent to every proprietor to ritable. fettle his property on whom he pleafes. (2.) Moveable rights may become heritable, by the fupervening of an heritable fecurity: Thus, a furn due by a perfonal bond becomes heritable, by the creditor's accept-

1. $\because$ のf

Rigit
partly fer tabee vart ly moveable.

That period makes a lubject heritade or moveable.
ing an herital!le right for fecuaing it, or by adjudging upon it.

7 Heritable rights do not beceme moveable by accefinty moveable fecurities; the heritable right leing in i.ich cafe the jus nobilius, which draws the cther after it.
8. Certain fubjecs partake, in different refpects, of the nature both of heritable aud moveable. Perlomal bonds are, by the above cited ack 166 s , moveaole in refpect of !uccelion; but keritable as to the fik, and the rights of humand and wife. All bonds, whether merely pesfonal, or evei) heritable, on which no feifin has follos.ed, may be affected at the fuit of creditors, cither by abjudication, which is a diligence proper to heritage, or by arrefment, which is peculiar to moveables. Bonds fecluding executors, though they defcend to the creditor' heir, are payable by the debtor's executors, without relief againtt the heir; fince the debter's fucceffion cannot be affected by the deftination of the creditor.
9. All quefions, whether a right be heritable or moveable. mult be determined according to the condition of the fu ject at the time of the anceftur's death. If it was heritable at that period, it mult belong to the heir; if moveable, it mull fall to the executor, without regard to any alterations that may have afteched the frubject in the intermediate period between the anceltor's death and the competition.

## -I. HERI'TABLE RIGHTS.

## Sect. III. Of the Comfitution of Heritable Rights by Chavtir and Seifin.

chis.
Orign of 1.e ieudal law.

Defmat:on of icu:

1. Heritable rights are governed by the feudal law, which owed its origin, or at lealt its firl improvements, to the Longobards; whofe kings, upon having penetratel intu Italy, the better to preferve their conquefts, made grants to their principal commanders of great part of the conquered proriners, to be again fubdivided by then among the inwer olficers, under the conditions of fidelity and miliary fervice.
2. The feudal conltitutions and ufages were firft reduced into writing about the year 1150 , by two lawyers of Milan, under the title of Corfisetudines Fendorum. None of the German emperors appear to have exprefsly conlirmed this collection by their authority: but it is generally agreed. that it had their tacit approbation, and was condidered as the cuitomary fendal law of all the countries lubject to the cmpire. No other culntry has ever aclnowledged the ee books for their lan; but cach flate lans formed in ithelf fuch a fyftem of feudal rules, as belt agreed with the genius of its own contlitution. In feudal queflions, therefore, we are governed, in the frlt place, by our own fatutes and cuitoms; where the fe fail us, we have regard to the practice of neighbouring countries, if the genius of their law appears to be the fame with ours; and frould the queftion fill remain doubtful, we may have recourfe to thofe written bouks of the feu', as to the original flan on which all feudal fyftems have proceeded.
3. This military grant got the name, firf of benefocium, and afterwards of foudum; and was defined a
gratuitcus rigl:t to the property of $l_{\text {arl }}$, made under Law the condiions of fealty and military lervice, to be per- Scotla fornied to the granter by the receivir; the radical riglit of the lanos fill remaining in the granter. Under lands, in this definition, are compreliended all rights or fu'sjects fo comected with land, that they are deemed a part thereof; as houfes, mills, fifhirgs, juridictions, patronages, \&c. Though feus in their original nature ucre gratuitous, they foon became the fubject of commerce ; Cervices of a civil or religious lind wese frequently fubrituted in place of military ; and now, of a long time, fervices of every kind have been entirely dirpenled with in certain feudal terues. He who makes the grant is called the fuperior, and he who receives it Superio: the raffal. The fubject of the grant is commonly call-and val ed the fou; though that word is at other times, in our law, ufed to fignify one particular tenure. (See Sect. iv. 2.) The intereft retained by the fuperior in the feu is ftyled dominium dircctum, or the fuperiority; and the intereft acquired by the vafial, dominum utile, or the property. The word fee is promifcucully applied to both?.
4. Allodial goods are oppofed to feus; by which Allodial are underftood goods enjoyed by the owner, indepen-soods. dent of a fuperior. All moveable goods are allodial; lanus oniy are fo when they are given without the condition of fealty or homage. By the feudal fyftem, the fovereign, who is the fountain of fewdal rights, referves to himfelf the fuperiority of all the lands of which he makes the grant; fo that, with us, no lands are allodial, except thofe of the kiug's own property, the fuperiorities which the king referves in the proper-ty-lands of his fubjects, and manfes and glebes, the right of ruhich is completed by the preibytery's defignation, without any feudal grant.
5. Every perfon who is in the right of an immove- Who car able fubject, provided he has the free adminiftration giant fet of his eilate, and is not debarred by itatute, or by dal right the nature of his right, may difpofe of it to another. Nay, avaffal, though he has only the dominium utile, can fubieu his property to a fubvaffal by a iubattern right, and thereby raife a new dominium direcium in himfelf, fubordmate to that which is in his fureriur; and fo in infoutum. The vaffal who thus fubieus is called the fubvafial's immediate fuperior, and the vafial's fuperior is the fubvaflal's mediate fuperion.
6. All perfons who are not difabled by law, my Who can acquire and enjoy feudal rights. Papifts cannot pus-reeceive chafe a land eltate by any voluntary deed. Aliens, them. wh) owe allegiance to a foreign prince, cannot hold a feudal right without naturalization : ind therefore, where fuch privilege was intended to be given to $f_{d-}$ voured nations or perfons, ftatutes of naturalization were noceffary, either general or fpecial ; or at lealt, letters of naturalization by the fovcreign.
7. Erery heritable fubiect capable of commerce, What ful may be granted in feu. From this general rule are ex-jects can cepted, I . The annexed property of the crown, which be grant is not alienable without a previous difiolution in parliament. 2. Tailzied lands, which are devifed under condition that they flall not be aliened. 3. An ellate in hurediaae jacente cannot be effectu lly aliened by the heir-apparent (i. e. not entered) ; but fuch alienation becomes effectual upon his entry, the fupervening
righta accruing in that cafe to the purchafer; which is scotland. a rule applicable to the alienation of all fubjects not belonging to the yender at the timp of the fale.
8. The fcudal right, or, as it is called, inveffiture, is confituted by charter and feilin. By the charter, we unde:fland that writing which contains the grant of the feudal fubject to the raffal, whether it be executed in the proper form of a charter, or of a difpofition. Charters by fubject fuperiors are granted, either, I. A me defuperiore meo, when they are to be holden, not of the granter himifelf, but of his fuperior. This fort is called a public holding, becaufe vaffals were in ancint times publicly received in the fuperior's court before the pares curix or co-vaflals. Or, 2. De me, where the lands are to be holden of the granter. Thefe were called fometimes bafe rights, from bas, lower: and fometimes private, becaufe, before the elta. blifhment of our records, they were eafily concealed from third parties; the nature of all which will be more fully explained, Sect. vii. An original charter is that by which the fee is firf granted: A charter by progrefs is a renewed difpofition of that fee to the heir or aftignee of the vafial. All doubtul claufes in charters by progrefs ought to be conlifued agreeably to the original grant; and all claufes in the original charter are underfood to be implied in the charters by progrefs, if there be no exprefs alteration.
9. The firft claufe in an original charter, which follows immediately after the name and defignation of the granter, is the narrative or recital, which expreffes the caufes inductive of the grant. If the grant be made for a valuable confideration, it is faid to be onerous; if for love and favour, gratuitous. In the difpolitive claufe of a charter, the fubjects made over are defcribed either by fnecial boundaries or march ftenes, (which is called a bounding charter), or by fuch other characters as may fufficiently difinguifh them. A charter regularly carries right to no fubjects but what are contained in this claufe, though they hould be mentioned in fome other claufe of the charter. It has been however found, that a right to falmon filling was carried by a claufe cumpifcariis in the tenemdas of a charter, the fame having been followed with poffefion.
10. The claufe of tenendas (from its firt words tenendas praditas terras) expreffes the particular tenure by which the lands are to be holden. The claufe of reddendo (from the words reddendo inde annation) fpecifies the particular duty or fervice which the vaftal is to pay or perform to the fuperior.
is. The claufe of warrandice is that by which the granter obliges himfelf that the right conveyed flall be effectual to the receiver. Warrandice is eitiver perfonal or real. P'crfonal warrandice, where the granter is only bound perfonally, is either, 1. Simple, that he fhall grant no deed in prejudice of the right; and this fort, which is confined to future deeds, is implied even in donations. 2. Warrandice from fact and deed, ly which the granter warrants that the right neither lias been, nor thall be, hurt by any fact of his. Or, 3. Alfolute watrandice contra omnes mortales, whereby the right is warrented againat all legal defects in it which may carry it off from the receiver citl er wholly or in part. Where a fale of land proceeds upon an onerous caufe, the granter is liable in abfolute warran-
dice, though no marmadice be expre? fignations to debts or decrees, no higher warrandice than from fact and deed is impliced.
11. Gratuitous grants by the crown imply no warrandice; and thrugh warrantice thould be exprefled, the claufe is ineffectual, from a preflemption that it has crept in by the negligence of the crown's oflicers. But where the crown makes a grams, not jure coront, but for an adequate price, the lovertign is in the fame cafe with his fubjects.
12. Abfolute warrandice, in cafe of eviction, affords ${ }^{5}$ an action to the grantee againlt the granter, for making up to him all that he thall have fuffered thoough the defeet of the right; and not fimply for his inden. nification, by the granter's repayment of the price to him. But as warrandice is penal, and confequently Aricti juris, it is not eafily prefumed, nor is it incurred from every light fervitude that may affed the fubject ; far lefs does it extend to burdens which may affect the fubject pofterior to the grant, nor to thofe impofed by public fatute, whether before or after, unlefs fpecially warranted againf.
13. Real warrandice is either, I. Exprofs, whereby, Rea! warin fecurity of the lands principally convesed, other r radice. lands, called warrandice lands, are allio made over, to which the receiver nay have recourfe in cale the principal lands be evited. Or, 2. Tucit, wlich is conflituied by the exchange or excambion of one piece of Excamground with another; for, if the lands exchanged are bion. carried off fiom either of the parties, the lav itfelf, without any paction, gives that party immediate recourfe upon his own firlit lands, given in exchange for the lands evited.
14. The charter concludes with a precept of feifin. Precept of which is the command of the fuperior granter of the right to his bailie, for giving feifin or poffefion to the vaftal, or his attorney, by delivering to him the proper fymbols. Any perfon, whofe name may be inferted in the blank left in the precept for that purpofe, can execute the precept as bailie; and whoever has the precept of feifin in his hands, is prefumed to have a power of attorney from the valfal for receiving poffeffion in his name.
15. A feifin is the inftrument or atteftation of a no- Infrument tary, that poffeftion was actually given by the fuperior of reifin. or lis bailie, to the vaffal or his attomey; which is confidered as fo necefliary a folemnity, as not to be fuppliable, either by a proof of natural poffeffion, or eren of the fpecial fact that the vafial was duly entered to the puffefion by the fuperior's bailie.
${ }_{17} 7$. The fymbols by which the deilivery of pofief. Symbots fion is exprefled, are, for lands, earth, and fone; for uffal in icio rights of annualrent payable forth of land, it is a!fo earth and fone with the addition of a penny money: for parfonage, teinds, a theaf of corn ; for jurifdictions, the bonk of the court ; for patronages, a plalm book, and the keys of the church; for filhings, net and coble; for mills, clap and happer, \&c. 'The feifin mult be taken upon the ground of the lande, except where there is a feccial difpenfation in the charter from the crown.
16. All feifins muft be regiftered within 60 days Reenfruafter their date, either in the general regifter of feifins tiun oit ici. at Edinburgh, or in the regifter of the particular ahire fins. appointed by the aft 1617 ; which, it mell be obferv-

Law of Scotlend.

Onc feifin ierves in contiguous and in unjted tenesuents.
rd, is not, in every cale, the mive withis which the lands lie. Burgaze feifins are ordanind to be regilered in the books of the borought.
19. Unrcgintered feifins are ineffecteal againtt third parties, but they are vaiid againft the granters and their heirs. Seifins regularly recorded, are preferable not according to their own dates, but the dates of their regithation.
20. Seitin neceffrily fuppofes a fuperior by whom it is given; the sight therefore which the fovereign, who ackuo:vledges the fuperior, has over the whole lands of Scotland, is conftituted jure coronce without feifin. In leveral parcels of land that lie contigunus to one another, one feilin ferves for all, unlefs the right of the feveral parcels be either holden of different fuperiors, or derived from different authors, or enjoyed by different tenures under the fame haperior. In dif. contiguous lands, a feparate feifin mull be taken on cuery parcel, unlefs the fovereign has united them into ore tenandry by a charter of mion ; in which cafe, if there is no fpecial place exprefled, a feifin taken on any part of the united lands will ferve for the whole, even though they be fituated in different hires. The only effect of union is, to give the difcontiguous lands the fame quality as if they had been contiguous or naturally united ; union, therefore, does not take off the necellity of feparate feifins, in lands holden by differcut tenures, or the rights of which flow from different fupcriors, thefe being incapable of natural union.
Barany implies union.

A cliarter heromes real only efter feifin.

## 

 faith witheut its warrant: It is the charter and feifin joined together that contitutes the feudal right, and fecures the receiver againlt the effect of all pofterior feinns, even though the charters on which they proceed flould be prior to his.23. No quality which is defigued as a lien or real All btirdens mult be inferted in the inveftizure.
24. The privilege of barony carries a higher right than union does, and confequently includes union in it as the leffer degree. This right of barony can neither be given, nar tranfmitte?, unlefs by the crown; but the quality of fimple union, being once conferred on lands by the fovereign, may be communicated by the vaffal to a fubvaffal. Though part of the lands united or erected into a barony be fold by the vaffal to be holden $\grave{a}$ me, the whole union is not thereby diflolved: what remains unfold retains the quality.
25. A charter, not perfected by feifin, is a right merely perfonal, which does not transfer the property (fee $\mathrm{N}^{0}$ clxsiii. 1.) ; and a feifin of itfelf bears no faith without its warrant: It is the charter and feifin burden on a fcudal right, can be effectual againft fingular lucceffors, if it be not inferted in the inveftiture. If the creditors in the burden are not particularly men- tioned, the burden is not real; for no perpetual unknown encumbrance can be created upon lands. Where the right itfelf is granted with the burden of the fum therein mentioned, or where it is declared void if the fum be not paid againtt a day certain, the burden is real ; but where the receiver is fimply obliged by his acceptance to make payment, the claufe is effectual only againft him and his heirs.

## Sect. IV. Of the reveral kinds of Holding.

elxv. I. Feudal fubjects are chiefly diftinguifhed by their Ward-hold- different manners of holding, which were either ward, j:!g.
W.
abolihed by 20 Geo. II. c. 5\%) was that which was Law of erranted for milizary fervi e. Its proper reddendo was Scotians forvices, or fervices ufed and wore; by which latt was meant the performance of fervice whenever the fuperior', occafions required it. As all feudal rights were originally held by this tenure, ward-holding was in dubio prefumed. Hence, though the reddendo had contained fome fpecial fervice or ycarly duty, the holding was prefumed ward, if another holding was not particularly expreffed.
2. Feu-holding is that whereby the vaffal is obliged Feu-hold. to pay to the fuperior a yearly rent in money or grain, ing and fometimes alfo in Cervices proper to a fainn, as ploughing, reaping, carriages for the fuperior's ufe, \&c. nomine feudi frome. 'This kind of tenure was iutroduced for the encouragement of agriculture, the improvement of which was confiderably obftruled by the vaffal's obligation to military fervice. It appears to have been a tenure known in Scotland as far back as leges bursorum.
3. Blanch-holding is that whereby the vafial is to Blanchpay to the fuperior an elufory yearly duty, as a penny holdinge money, a rofe, a pair of gilt fpurs, \&c. merely in acknowledgment of the fuperiority, nomine atho firme. 'This duty, where it is a thing of yearly growth', if it be not demanded within the year, cannot be exacted thereafter; and where the words fipetatur tanturn are fubjoined to the reddendo, they imply a releafe to the vafial, whatever the quality of the duty may be, if it is not alked within the year.
4. Burgnge-holding is that, by which boroughs- Eurgageroyal hold of the fovereign the lands which are con-holding, tained in their clarters of erection. This, in the opinion of Craig, does not conftitute a Ceparate tenure, but is a fpecies of ward-holding; with this fpeciality, that the vaflal is not a private perfon, but a community : and indeed, watching and warding, which is the ufual fervice contained in the reddendo of fuch charters, might be properly enough faid, fome centuries ago, to have been of the military kind. As the royal borough is the king's vallal, all burgage-holders hold immediately of the crown : the magitrates, therefore, when they receive the refignations of the particular burgeffes, and give feifin to them, ast, not as fupe-. riors, but as the king's bailies feecially authorized thereto.
5. Feudal fubjects, granted to churches, monafte-Mortificaw ries, or other focieties for religious or charitable ufes, tion. are faid to be mortified, or granted nd mnnum mortunm; either becaufe all cafualties muft neceffarily be loft to the fuperior, where the vaffal is a corporation, Which never dies; or becaufe the property of thefe fubjects is granted to a dead hand, which cannot tranffer it to another. In lands mortified in times of Popery to the church, whether granted to prelates for the behoof of the church, or in purnm cleemofynam; the only fervices preftable by the vallals were prayers, and finging of mafles for the fouls of the deceafed, which approaches nearer to blanch-holding than ward. The purpofes of fuch grants having been, upon the Reformation, declared fuperftitions, the lands mortified were annexed to the crown: but mortifications to univerfities, לofpitals, \&c. were not affected by that annexation; and lands may, at this day, be mortified to any lawful purpofe, either by blanch or by feu hold-
ing: But as eain muf lofe all the cafualties of fuperiurty i. .. E of mortifi ations to churches,
 tion, never dies; therefore lands camot be mortified without the fuperio:'s coifent. Craig, lib. i. dieg. Ir. $\oint 21$.

Sxct. Y. Of the Cafualics due to the Superior.

1. The rinht of the fuperior continues unimpaired, notwithtanding the feudal grant, unlefs in fo far as the dominium utile, or property, is conveyed to his vafifal. The fupcriority carries a right to the fervices and annual duties contained in the rdiliendo of the valfal's charter. The duty payable by the vaffal is a delitum fisndi, i. e. it is recoverable, not only by a perfonal action againft himfelf, but by a real action againft the lands.
2. Befides the conftant fixed rights of fuperiority, there are others which, becaufe they depend upon uncertain events, are called cafualties.
3. The cafualties proper to a ward-holding, while that tenure fubfifted, were ward, recogntition, and marriage, which it is now unneceflary to explain, as by the late flatutes 25 and 25 Gco . 11. for abolithing wardholdings, the tenure of the lands holden ward of the crown or prince is turned into b/anch, for payment of one penny Scots yearly, fo petatur tantum; and the renure of thofe holden of fubjects into feu, for payment of fuch yearly feu duty in money, victual, or cattle, in place of all fervices, as fhould be fixed by the court of feffion. And accordingly that court, by act of federunt Feb. 8. 1749, laid down rules for afcertaining the extent of thefe feu duties. A full hitory of their cafualties, and of the effects confequent upon their falling to the fuperior, will be found in Erfkine's large Inftitute, B. 2.t. 5. § 5. et fequen.; to which the reader is referred.
4. The only cafualty, or rather forfeiture, proper to feu-holding, is the lofs or tinfel of the feu right, by the seglect of payment of the feu duty for two fu!l years. Yet where there is no conventional irritancy in the feu right, the vallal is allowed to purge the legal irritancy at the bar; that is, he may prevent the forfeiture, by making payment before fentence; but where the legal iritancy is fortified by a conventional, he is not allowed to purge, unlefs where he can give a good reafon for the delay of payment.
5. The cafualties common to all holdings are nonentry, relief, liferent efcheat, difclamution, and purpregure. Non-entry is that cafualty which arifes to the fuperior out of the rents of the feudal fubject, through the heirs negle fing to renew the inveltiture after his ancefor's death. 'The fuperior is entitled in this cafualty, not only where the heir has not obtained Limfeil infeft, hut where his retour or infefiment is fet afije upon nullities. The heir, from the death of the ance?lor, till he be cited by the fuperior in a procefs of general declarator of non-entry, lofes only the retoured duties of his lands, (fee nest paras.) ; and he forfeited thefe, though his delay 1 l:uuld not argue any contempt of the fuperior, becaufe the cafualty is confidered to fall, as a condition implied in the foudal right, and nut as a penalty of tranifretion: but rea-
fonable excufes are now admitted to liberate even frum the retoured duties before citation.

Law of
6. For underflanding the nature of retoured duties, $\underbrace{}_{\text {Retoured }}$ it muft be known, that there was anciently a generalduies. valuation of all the lands in Scotland, deligned buth for regulating the proportion of public fublidics, and for alcortaining the quantity of non-entry and relief dutues payable to the fuperior; which appears, by a contract between K. R. Bruce and his lubjects anno 1327, preferved in the library of the Faculty of $\Lambda$ dvocates, to have been fettled at lealt as far back as the reign of Alexander IlI. This valuation became in the courfe of time, by the improvement of agriculture, and perhaps alfo by the heightening of the nominal value of our money, from the reign of Robert 1. downwards to that of James 1I1. much too low a flandard for the fuperior's cafualties; wherefore, in all fervices of heirs, the inqueft came at laft to take prooi likewile of the prefent value of the lands contained in the bricf (quantum nunc volent), in order to fix thefe cafualties. 'The firit was called the old, and the other the new, ex:cnt. Old and Though both extents were ordained to be fpecified in new ex: all retours made to the chancery upon hrieves of in tents. quelt; yet by the appellation of retoured duties in a queftion concerning cafualtics, the new extent is always underftood. The old extent continued the rule for leveying public fubfidies, till a tax was impofed by new propostions, by feveral acts made during the ufurpation. By two acts of Cromwell's parliament, held at Weftminfter in 1656 , impofing taxations on Scotland, the rates laid upon the feveral counties are precifely fixed. The fubfidy granted by the act of convention 1667 was levied on the feveral counties, nearly in the fame proportions that were fixed by the ufurper in 1656 ; and the fums to whicheach county was fubjected were fubdivided among the individual lendholders in that county, according to the valuations already fettled, or that thould be-fertled by the commilioners appointed to carry that act into execution. The rent fixed by thefe valuations is commonly called the salued Valued rent; according to which the land tax and molt of rent. . the other public burdens, have been levied fince that time.
7. In feu-holdings, the feu duty is retoured as the rent, becaufe the feu duty is prefumed to be, and truly was at firlt, the rent. The fuperior therefore of a feuholding gets no non-entry, before citation in the general declarator; for he would have been entitled to the yearly feu duty, though the fee had been full, i. e. though there had been a vallal infeft in the lands. The fuperior of teind gets the fifth part of the retoured du-. ty as non entry, becaufe the law connders teinds to be worth a fifth part of the rent. In rights of anmualrent which are holden of the granter, the anmualrenter becomes his debtor's vafia! ; and the anmualtent conained in the right is retoured to the blanch or other duty. contained in the right befure declarator.
8. It is becaufe the retoured duty is the prefumed rent, that the non-entry is govemed by it. If therefure no retour of the lands in non-entry catn be procuced, nor any evidence brought of the retuu ed duty; the ${ }^{n} u$ uerior is en itled to the real, or at leat to the valuel. reni, even before citation. In lands formerly holden ward of the king, the heir, in place of the re-
toured duties, is fubjected oaly to the annual payment Sootiand. Scotiand. of one per cent. of the ralued rent.
9. The heir, after he is cited by the fuperior in the ation of general declarator, is fubjected to the full rents till his entry, becaufe his neglect is lefs exculable atter citation. The decree of declarator, proceding on this ation, enticles the fuperior to the poffeffion, and gives him right to the rents downward from the citation. As this fort of non-entry is properly penal, our law has always reftricted it to the retoured duties, if the heir had a probable excufe for not entering.
10. Non-entry does not obtain in burgage Loldings,

In what cafes nonentry is net due.

Relief.
becaufe the incorporation of inlabitants holds the whole incorporated fubjects of the king; and there can be no non-entry duty in lands granted to communities, becaufe there the vaffal never dies. This covers the right of particulars frosi non-entry: for if non-entry be excluded with regard to the whole, it cannot obtain with regard to any part. It is allo excluded, as to a third of the lands, by the terce, during the widow's life; and as to the whole of them, by the courtefy during the life of her hufband. But it is not excluded by a precept of feifn granted to the heir till feifin be taken thereupon.
11. Relief is that cafualty which entitles the fuperior to an acknowledgment or confideration from the heir for receiving him as valfal. It is called relief, becaufe, by the entry of the heir, his fec is relieved out of the hands of the fuperior. It is not due in feu-holdings flowing from fubjects, unlefs where it is exprefied in the charter by a fpecial claufe for doubling the fen duty at the entry of an heir ; but in feu rights holden of the crown, it is due, though there fhould be no fuch claufe in the charter. The fuperior can recover this cafualty, either by a poinding of the ground, as a debitum fundi, or by a perfonal action againt the heir. In blanch and feu-holdings, where this cafualty is exprefsly flipulated, a year's blanch or feu duty is due in name of relief, befide the current year's duty payable in name of blanch or fell farm.
12. Escheat (from efcheoir, to happen or fall) is that forfeiture which falls through a perfon's being denounced rebel. It is either fingle or liferent. Single efcheat, though it does not accrue to the fuperior, muft be explained in this place, becaufe of its coincidence with liferent.
13. After a debt is conftituted, either by a formal decree, or by regiftration of the ground of debt, which to the fpecial effect of execution, is in law accounted a decree : the creditor may obtain letters of horning, ifluing from the fignet, commanding meffengers to charge the debtor to pay or perform his obligation, within a day certain. Where horning proceeds on a formal decree of the feffion, the time indulged by law to the debtor is fifteen days; if upon a decree of the commifion of teinds or admiral, it is ten; and upun the decrees of all inferior judges, fifteen dars. Where it proceeds on a regillered obligation, which fecifies the number of days, that number mun be the rule; and, if 110 precife number be mentioned, the charge mult be given in fifteen days, which is the term of law, unlefs where fpecial ftatute interpofes; as in bills, upon which the debtor may be charged on fix days.
14. The meffenger mult execute thefe letters (and

WV.
indeed all fummonfes) againt the debtor, either per- Law o fonally or at lis dwelling hou.e; and, if he get not Scolan. accefs to the houfe, he muft frike fix knocks at the gate, and thereafter affix to it a copy of his execution. If payment be not made within the days mentioned in the horning, the meflenger, after proclaiming three oyeffies at the market crofs of the head borough of the debtor's domicile, and reading the letters there, blows three blafts with a horn, by which the debtor is underflood to be proclaimed rebel to the king for contempt of his authority; after which, he muit affix a copy of the execution to the market crofs; This is called the publication of the dilifence, or a denunciation Denuncia at the hor'l. Where the debtor is not in Scotland, hetion. mull be clarged on fixty days, and denounced at the market crols of Edinburgh, and pier and chore of Leith.
55. Denunciation, if regiftered within 15 days, ei-Confeque ther in the fherifi's books, or in the gencral regifler, ces therec drew after it the rebel's fingle efcheat, i. e. the forfeiture of his moveables to the crown. Perfons denounced rebels have not a perfona Aandi in judicio; they can neither fue nor defend in any action. But this incapacity being unfavourable, is perfonal to the rebel, and cannot be pleaded againlt his affignee.
16. Perfons cited to the court of jufticiary may be Denurcie alfo denounced rebels, either for appearing there with tion in cri too great a number of attendants: or, if they fail to minal caf appear, they are declared fugitives from the law. Single efcheat falls, without denunciation, upon fentence of death pronounced in any criminal trial ; and, by fecial flatute, upon one's being convicted of certain crimes, though not capital; as perjury, bigamy, deforcement, breach of atteltment, and ufury. By the late act abolifhing ward-holdings, the cafualties both of fingle and liferent elcheat are difcharged, when proceeding upon denunciation for civil debts; but they fill continue, when they arife from criminal caufes. All moveables belonging to the rebel at the time of his rebellion, (whether proceeding upon denunciation, or fentence in a criminal trial), and all that flall be afterwards acquired by him until relaxation, fall under fingle efcheat. Bonds bearing interefl, becaufe they continue heritable guoad ffoum, fall not under it, nor fuch fruits of heritable fubjects as became due after the term next enfuing the rebellion, thefe being referved for the liferent efcheat.
17. The king never retains the right of efcheat to himfelf, but makes it over to a donatory, whofe gift is not perfected till, upon an action of general declarator, it be declared that the rebel's efcheat has fallen to the crown by his denunciation, and that the right of it is now transferred to the purfuer by the gift in his favour. F.very creditor therefore of the rebel, whofe debt was contracted befure sebellion, and who has ufed diligence bcfure declarator, is preferable to the donatory. But the efcheat caunot be affected by any debt contracted, nor by any voluntary deed of the rebel after rebellion.
18. The rebel, if he either pays the debt charged Letters of for, or fufpends the diligence, may procure letters of relasation relasation from the horn, which, if publifited in the fame place, and regiftered 15 days thereafter in the fame regifter with the denunciation, have the effect to

Law of reltore hin: to his former 月ate; but they have no retrofpest as to the moveables already fallen under of cheat, without a fpecial claufe for that purpofe.
19. The rebel, if he continues unrelaxed for year and day after rebellion, is contrued to be civilly dead: and therefore, where he holds any feudal right, his fuperinrs, as being withont a vafial, are entitled, each of them, to the rents of fuch of the lands belonging to the rebel as hold of himfelf, during all the days of the rebel's natural life, by the cafualty of hiferext esCHLAT ; encept where the denunciation proceeds upon trealon or proper rebellion, in which cafe the lifcrent falls to the king.
20. It is that eftate only, to which the rebel has a proper right of liferent in his own perfon, that falls under his liferent e?cheat.
$2 \pi$. Though neither the fuperior nor his donatory can enter into pofferfion in confequence of this cafualty, till decree of declarator; yet that decree, being truly declaratory, has a retrofpect, and does not fo properly confer a new right, as declare the right formerly conflituted to the fuperior, by the civil death of his vafial. Hence, ali charters or herit tble bonds, though granted prior to the rebellion, an lall adjudications, though led upon debts contracted before that neriod, are ineffectual againft the liferent efcheat, un'efs feifin be taken thereon within year and day after the granter's rebellion.
22. Here, as in fingle efcheat, no debt contracted after rebellion can turt the donatory, nor any voluntary right granted after that period, though in fecuity or fatisfaction of prior debsts.
23. Dischavintion is that cafualty whereby a valfal forfeits his whole feu to his fuperior, if he difowns or difclaims him, without ground, as to anv part of it. Purtresture draws likewife a forfeiture of the whole feu after it; and is incurred by the vaffal's encroaching upon any part of hi, fuperior's property, or attempting, by building, enclofing, or otherwire, to make it his cwn. In both thefe feudal delinquencies, the leaft colour of excule faves the vaffat.
24. All grants from the crown. whether charters, gifts of cafualties, or others, proceed on fignatures which pals the fignet. When the king refided in Scotland, all fiynatures were fuperfcribed by him; but, on the arceifion of James VI, to the crown of England, a cachect or feal was made, having the king's name engraved on it, in purfuance of an act of the privy c:uncil, Amil 4. 1603, with which all fignatures were to be afierwards fealed, that the lords of exchequer were emnorrered to pafs; and thefe powers are transferred to the couit of exchequer, which was eflablifined in Scotland after the union of the two kingtoms in 1707. Crants of hi ter corifequence, as remifion of crimes, gifts proceeding upon forfeiture, and charters of novodemus. mult have the hing's fign manual for their warrant.
25. If lands ho!ding of the crown were to be conveved, the chartur oaffed, before the union of the kingdoms in 1757, by the great feal of Scotland; and now by a feal fuhfituted in place thereof. Grants of charch dignitiec, during Epifcopacy, paffed alfo bv the great feal; and the commifions to all the principal uffrces of the crown, as jullice cle:k, king's adrocate, folicitor, \& c. do fo at this day. All riglats which fub-
jechs may tranfinit uy limple afignation, the ling tranf. Law of mits by the privy leal : as gifts of moveable, or of Scotland. catualtics that require no leilin. The quarter leal, otherwife called the teflimonial of the great foll, is appended to gifts of tutory, comanilions of bricyes illuing from the chancery, and letters of prefentation to lands holding of a fubject, procceding upon forfeiture, baftardy, or ultimus hereres.
26. Seals are to royal grants what fubliciption is Thicir usea to rights derived from fubjects, and give them authoritv ; they ferve allo as a check to gifits procured (fubreptione tel olreptione) by concealing the truth, or exprefling a falfehood; for, where this appears, the gift may be ftopped before pafing the feals, though the lignature thould have been figned by the king. All rights paling under the great or privy feal mult be regiftered in the regitters of the great or privy fial refpective, before appending the feal.

## Sect. VI. Of the Right which the Vafal acquites by cirvit. getting the Fill.

1. Under the dominium utile which the vaffal acquires Dominiun by the feudal right, is comprehended the property of atile. whatever is contidered as part of the lands, whether of houfes, troods, enclofures, \&c. above ground; or of coal, limeitone, minerals, Eic. under ground. Milis have, by the generality of our lawyers, teen deemed a feparate tenemient, and fo not carried by a chater or difpofition, without either a fpecial claufe conver: ing mills, or the erection of the lands into a barony. Iet it is certain, that, if a proprictor builds a mill on his own lands, it will be carried by his entail, or by a retour, without mentioning it, although the lands are not ererted into a barony. If the lands difponed be alfricted, or thirled to another m?!, the puichafer is not allowed to build a new corn mill on his property, even though he thould offer fecurity that it fhall not hurt the thirle; which is introduced fur preventing daily temptations to fraud.
2. l'roprietors are prohibited to hold dove-cots, unle?s their yearly rent, lying within two miles thereof, extend to ten chalders of rifual. A purchaler of lands, with a dove-cot, is not obliged to pull it down, though he thould not be qualified to build one; but, if it becomes ruinous, he cannot rebuild it. The right of brewing, though not expreffed in the grant, is implied in the nature of property; as are allo the rights of fithing, fowling, and bunting, in fo far as they ase not reflrained by llatute.
3. There are certain rights naturally coníequent on Regalia. property, which are decmed to be preferved by the cromn as regalia; unlefs they be fpecially conveyed. Gold and dilver nines are of this dort; the firtl univerfally; and the other, where three halfpemnies of filver can be extracted front the pound of lead, by act I42f, (three halfpennies at that time was equal to about two fhillings five pernies of our prefent Scots money). 'ihefe wore by our ancient law annexed to the crown; but they are now diffulved from it ; and every proprietor is entitled to a grant of the mines within his own lands, with the burden of delivering to the cressn a tenth of what thall be brought up.
4. Salmon filhing is likewile a right underfood to be referved by the crown, if it be not expretsly granted:
L. We of Scotiand.

Respab lica.
-Tack or
leafe.
but 40 years porctition thencof, where the lands are either erected into a barony, or granted with the gereral claure of filhings, eftablithes the full right of the fatmon filhing in the vaflal. A charter of lands within which any of the king's forefts lie, does not carry the property of fuch foreft to the raffal.
5. All the futjeas which were by the Roman law accounted res publicu, as rivers, hightrays, ports, \&c. are, fince the introduction of feus, held to be inter regalia, or in patrimonio principis; and hence encroachment upon a highway is faid to infer purprefture. No perfon has the right of a free poit without a fpecial grant, which implies a poiser in the grantee to levy anchorage and Thore dues, and an obligation upon him to uphold the port in good condition. In this clafs of things, our forefathers reckoned fortalices, or fmall places of Atength, originally built for the defence of the country, either againtt foreign invafions or civil commotions; but thefe now pals with the lands in every charter.
6. The valial acquires right by his grant, not only to the lands fecially contained in the charter, but to thole that have been polfelled 40 years as pertinent thereof. But, 1. If the lands in the grant are marked out by [pecial limits, the vaffal is circumferibed by the tenor of his own right, which excludes every fubject without thefe limits from being pertinent of the lands. 2. A right pollefled under an exprefs infeftment is preferable, certuris paribus, to one pofeffed only as pertinent. 3 . Where neither party is infeft per expreflum, the mutual promifcuous poffefion by both, of a fubject as pertinent, refolves into a commonty of the fubject poflefled: but if one of the parties has exercifed all the acts of property of which the fubject was capable, while the poffelfion of the other was confined to paflurage only, or to cafting feal and dirot, the firft is to be deemed fole proprietor, and the other to have merely a right of fervitude.
7. As barony is a nomen univerfeatis, and unites the feveral parts contained in it into one individual right, the general convegance of a barony ca:ries with it all the different icnements of which it confifts, though they fhould not be fpecially enumerated (and this holds, even without erection into a barony, in lands that have been united under a fpecial name). Hence, likewife, the pofteffion by the vaffal of the fmalleft part of the barony lands preferves to him the right of the whole.
8. The valial is entitled, in confequence of his property, to levy the rents of his own lands, and to recover them from his tenants by an action for rent before his own court ; and from all other pofieflors and intromitters, by an action of mails and duties before the fheriff. He can alfo remove from his lands, tenants who have no leafes; and he can grant tacks or leafes to others. A tack is a contract of location, whereby the ufe of land, or any other immoveable fubject, is fet to the leffee or tackfman for a certain yearly rent, either in money, the fruits of the ground, or fervices. It ought to be reduced into writing, as it is a right concerning lands: tacks, therefore, that are given verbally, to endure for a term of years, are good againft neither party for more than one year. An obligation to grant a tack is as effectual againft the granter as a formal tack. A liferenter, having a temporary pro-
perty in the fruits, may crant tacks to cndure for the term of his own liferent.
9. The tacheman's right is limited to the fruits which foring op anmally from the lubject fet, either narurally, or by his own indultry; he is not therefore entitled to any of the growing timber above ground, and far lefs to the minetais, coal, clay, \&c. usider ground, the ufe of which confumes the fubfiance. Tacks are, like other contracts, perfonal rights in their own nature; and corfequently ineffectual againft fingular fucceffors in the lands; but, for the encouragement of agriculture, they were, by act $14+9$, declared effectual to the tackfman for the full time of their endurance, into whofe hands foever the lands might come.
10. To give a written tack the benefit of this flatute, it mufl mention the fpecial tack-duty payable to the proprietor, which, though limall, if it be not elufory, fecures the tackfman; and it muft be followed by poffefion, which fipplies the want of a feilin. If a tack does not exprefs the term of entry, the entry will commence at the next term after its date, agreeable to the rule, Quoci pure dobciur, prafenti die dobetur. If it does not mention the inh, i. e. the term at which it is to determine, it is good for one year only; but, if the intention of parties to continue it for more than one year, thould appear from any claufe in the tack, e. g. if the tackfmais thould be bound to certain annual preftations), it is fultained for two years as the minimum. Tacks granted to perpetuity, or with an indefinite ifh, have not the benent of the ttatute. Tacks of houles within borough do nut fall within this aç, it being cultomary to let rheie from year to year.
in. Tacks neceflarily imply a delectus perfonre, a choice Tacks ar by the fetter of a proper perfon for his tenant. Hence Arillijur the conveyance of a tack which is not granted to affignees, is ineffectual without the landlord's confent. A right of tack, though it be heritable, falls under the jus mariti, becaufe it cannot be feparated from the labouring cattle and implements of tillage, which are moveable fubjects. A tack, therefore, granted to a fingle woman, without the liberty of affigning, falls by her marriage; becaufe the marriage, which is a legal conveyance thereof to the hurband, cannot be annulled. This implied exclufion of affignees, is, however, limited to voluntary, and does not extend to neceffary, affignments; as an adjudication of a tack by the tackfman's creditor: but a tack, exprefsly excluding afignees. cannot be carried even by adjudication. It was not a fixed point for a long time, whether a tenant could fubfet without confent of the landlord; but the court of feffion, in a cale which occurred a few years ago, denied the power of fubfetting in the tenant. Liferent tacks, becaufe they import a higher degree of right in the tackfman than tacks for a definite term, may be affigned, unlefs aifignees be fpecially excluded.
12. If neither the feticr nor tack fman frall properly Tacit rele difcover their intention to have the tack difiolved at the cation. term fixed for its expiration, they are underfood, or prefumed, to leve entcred into a new tack upon the fame terms with the former, which is called tacit relocation; and continues till the landlord warns the tenant to remove, or the tenant renounces his tack to the landlord: this obtains al!o in the cale of moveable tenants, who poffefs from year to year without written tacks.

In judicial tachs, honever, by the court of fellion, tacit relocation neither does nor can take place; fur cautioners being interpofed to thefe, they are loofed at the end of the tack : and therefore, where judicial tackfinen poffefs after expiry of the right, they are accountable as factors.
13. In tacks of land, the fetter is commonly bound to put all the houfes and ofice boufes, neceflary for the farm, in good condition at the tenant's entry; and the tenant muft keep them and leave them fo at his remoral. But, in tacks of houfes, the fetter mult not only deliver to the tenant the fubject f.t, in tenantable repair at his entry, but uphold it in that repair during the whole years of the tack, unlefs it is otherwife covenanted betwist the parties.
14. If the inclemency of the weather, inundation, or calamity of war, thould have brought upon the crop an extraordinary damage (plus quam volerabile), the landlord had, by the Roman law, no claim for any part of the tack-duty; if the damage was more moderate, he might exact the full rent. It is nowhere defined, what degree of fterility or devaftation makes a lofs plus quam tolerabile; but the general rule of the Roman law feems to be made ours. Tenants are not obliged to pay any public burdens to which they are not exprefsly bound by their tack, except mill fervices.

## Atituticn

15. Tacks may be evacuated during their currency, (I.) In the fame manner as feu rights, by the tackfman's rumning in arrear of his tack duty fin two years together. This irritancy may be prevented by the tenant's making payment at the bar before fentence. (2.) Where the tenant either runs in arrear of one year's rent, or leaves his farm uncultivated at the ufual feafon; in which cafe he may, hy act of federunt 1756, be ordained to give fecurity for the arrears, and for the rent of the five following crops, if the tack hall fubfifi fo long; otherwife to remove, as if the tack were at an end. (3.) Tacks may be evacuated at any time by the mutual confent of parties.
16. The landlord, when he intends to remove a tenant whofe tack is expiring, or who poffefies without a tack, mult, upon a precept figned by himlelf, warn the tenant forty days preceding the term of Whitfunday, at or immediately preceding the ith, perfonally or at his dwelling houfe, to remove at that term, with his family and efferts. This precept muft be alfo executed on the ground of the lands, and thereafter read in the parill church where the lands lie, after the morning fervice, and affixed to the mofl patent door thereaf. Whitfunday, though it be a moveable feaft, is, in queftions of removing, fixed to the 15 th of Nay. In wamings from tenements within borough, it is fufficient that the tenant be warned forty days befure the in of the tack, whether it be Whitfunday or Martinmas; and in thefe the ceremony of chalking the door is fuftained as warning, when proceeding upon a verbal order from the proprietor.
17. This procefs of waming was precifely neceffary for founding an action of removing againlt tenants, till the act of federunt 17:6, which leaves it in the option of the proprietor, either to ufe the former method, or to bring his action of remoring hefore the judge ordi. nary: which, if it be called 40 days before the faid term of Whitfunday, thall be held as eqqual to a warning. Where the tenant is bound, by an exprefs claufe of his Vol. XI. Part II.
tack, to remore at the ith withont wamiag, fuch obligation is, by the faid ast, declared to be a fulticient

Law o: Scotiand. land!ord charge his tenant forty davs before the faid Whitfunday, the judge is authorized to eject him within fix davs after the term of remoring exprefied in the tack.
18. Actions of remaring ruight, even before this act of federunt, have been pirfued witheut any previous warning, (1.) Againft vicious poffelfors, i. e. Ferfons Actions of who had feized the poffilfion by force, or who, whont ${ }^{\text {ramoving. }}$ any legal title, had intruded into it, after the laft poffefor had given it up. (2.) Againft poffefors who bad a naked tolerance. ( $3 \cdot$.) Againft tenants who had ru:s in arrear of rent, during the currency of their tacks. (4.) Againfl fuch as bad fold their lands, and yet continued to poliefs after the term of the purcha'er's entry. Upon the fame ground, warning was not required, in removings againft polfelfors of liferented lands, after the death of the liferenter who died in the natural poffeffion: but if he poffefled by tenants, thefe tenants could not be diturbed in their polf-fions till the next Whitfunday, that they might have time to look out for other farms; but they might be compelled to remore at that term, by an aftion of removing, without waming.
19. A landlord's title in a removing, let it be ever fo lame, cannot be brought under quelfion by a tenant whofe tack hows immediately from him; but, if he is to infift againfl tenants not his own, his right muft be peifected by infeftment, unlefs it be fuch as requires no infeftment; as terce, \&zc.
20. The defender, in a removing, mut (by aft 155.5 ). Violent before offering any defence which is not intantiy veri-profts. fied, give fecurity to pay to the etter the vivient prifs, if they fhould be aurarded asainf him. Thele are fo called, becaufe the law confiders the tenant's poffelfion after the warning as violent. They are eftimated, in tenements within borough, in double the rent; and in lands, to the higheft profits the purfuer could have made of them, by poffefing them either by a tenant or by himielf.
21. If the action of remoring fhall be paffed from. Effect of or if the landlord flall, after ufing warning, accept of watining rent from the tenant, for any term fubfequent to that in. of the removal, he is prefumed to have changed his mind, and tacit relocation takes place. All actions of removing againtt the principal or original tackfran, and decrees thereupon, if the order be ufed, which is fet forth Jupra (17.), are, by the af of federunt 1756, declared to be effectual againft the aftignecs to the tack or fubtenants.
22. The landlord has, in fecurity of his tack-duty, IIyrothec. over and above the tenant's perfonal obligation, a tacit pledge or hypothec, not only on the fruits, but on the cattle paituring on the ground. The corn, and other fruits are hypothecated for the rent of that year whereof they are the crop; for which they remain affected, though the landlord fhould not ufe his right for years tngether. In virtue of this hypothec, the landlurd is entitled to a preference over any creditor, though he bas actually ufed a poinding; except in the fpecial cafe, that the poinding is executed after the term of payment, when the landlord can approjriate the crop for his payment, the poinder in fuch cafe being obliged
idar of to leave ac much on the ground as to fatisfy the Scutland. landlord's hypothec: and it was found by the court of
fettion, that this right of the landlord is preferable even to a debt due to the crown, for which a writ of extent had been iffued.
23. The whole cattle on the ground, confidered as a quantity, are hypothecated for a ycar's rent, one after another fucceffively. The landlord may apply this hypothec for payment of the palt year's rent, at any sime uithin three months from the lalt conventional term of payment, after which it ceafes for that year. As the tenant may increafe the fubject of this hypothee, by purchafing oxen, fleep, \&c. fo he can impair it, by felling part of his llock; but if the landlord fufpects the tenant's management, he may, by fequeftration or poinding, make his right, which was lefore g-neral upon the whole Rock, fpecial upon cuery individual. A fuperior bas alfo a hypothec for his feu-duty, of the fame kind with that juit explained.
24. In tacks of houfes, breweries, fhops, and other tenements, which have no natural fruits, the furniture, and other goods trought inso the fubject fet are hypothecated to the landlord for one year's rent. But the tenant may by fale impair this hypothec, as he might that of cattle in rural tenements; and indeed, in the particular cafe of a fhop, the tenant rents it for no other purpore than as a place of fale.

## Sect. VII. Of the Tranfmifion of Rights, by Corffrmafion and Refiguetion.

clxciii.
Tranfmiffion of feudal rights.
I. A vaffal may tranfmit his feu either to univerfal fucceffors, as heirs : or to fingular fucceffors, i. e. thofe who acquire by gift, purchafe, or other fingular title. This laft fort of tranfmifion is either voluntary, by dif.pofition ; or neceflary, by adjudication.
2. By the firt feudal rules, no fuperior could be compelled to receive any vafal in the lands, other than the heir expreflet in the inveltiture; for the fuperior alone had the power of afcertaining to what order of heirs the fee granted by himfelf was to defcend. But this right of refufal in the fuperior did rot take place, (1.) In the cafe of creditors appraifers or adjudgers, whom fuperiors were obliged to receive unon payment of a year's rent (1469, c. 37.1672 , c. 19.) : (2.) In the cafe of purchafers of bankrupt eftates, who were put on the fame footing with adjudgers by 1690, c. 20. The crown refufes no voluntary difponee, on his paying a compofition to the exchequer of a fixth part of the valued rent. Now, by 20 Geo. 1I. fuperiors are direved to enter all fingular fuccelfors (except incorporations) who thall have got from the valfal a difpofition, containing procuratory of refignation : they always receiving the fees or cafualties that law entitles them to on a vaflal's entry, i. e. a year's rent (A).
W.
3. Bafe rights, i. e. difpofitions to be holden of the difponer, are tranfmiltions only of the proper:y, the fuperiority remaining as formerly. As this kind of right might, before ellablifhing the regilers, have been kept quite concealed from all but the granter and receiver, a public right was preferable to it, unlefs clothed with poffeffion : beit as this diftinction was no longer neceffary after the ellablithmeit of the records, all infeftments are declared preferable, according to the dates of their feveral regiftrations; without refpe:t to the former difinction of bafe and public, or of being clothed and nut clothed with polfefion.
4. Public rights, i. e. difpofitions to be holden of the Public granter's fuperior, may be perfected either by confir-rights mation or refignation; and therefore they generally contain both preceot of feifin and procuratory of refignation. When the receiver is to complete his right in the frit way, he takes feifn upon the precept: but fuch feifn is ineffectual without the fuperior's connirmation; for the difponee cannot be deemed a vaflal till the fuperior receive him as fuch, or confirm the holding. Ly the ufual tyle in the trainfmiltion of lands, the difpofition contans an obligation and precept of infeftment, Luth à me and de me, in the option of the difponee : upon which, if feiin is taken indefinitely, it is conftrued in favour of the difjonee to be a bafe infeftment, becaufe a public right is null without confirmation: but if the receiver thall afterwards obtain the fuperior's confirmation, it is confidered as if it had been from the beginning a public right.
5. Where two feveral public rights of the fame fub- Preferer ject are confirmed by the fuperior, their preference is in confir governed by the dates of the confirmations, not of the tion. infeftments confirmed; becaufe it is the confirmation which completes a public right.
6. Though a public right becomes, by the fupe-Effect of rior's contirmation, valid fiom its date; yet if any mid confrma impedimeot intervene betwint that period and the confirmation, to hinder the two from being conjoined, e. $g$. if the granter of a public right fhould afterwards grant a bafe right to another, upon which feilin is taken before the fuperior's contirmation of the firf, the confirmation will have effect only from its own date; and confequently the bafe right firft completed will carry the property of the lands preferable to the public one.
7. Refignation is that form of law, by which a val- Refignafal furrenders his feu to his fuperior; and it is either ${ }^{\text {tions }}$ ad perpetuan remanentiam, or in favaremn. In refignations ad remanentiam, where the feu is refigned, to the effect that it may remain with the fuperior, the fuperior, who before had the fuperiority, acquires, by the refignation, the property alfo of the lands refigned: and as his infeftment in the lands fill fubfoied, notwithftanding the right by which he had given his vallal the property; therefore, upon the valfl's refignation, the fu-
perior's
(A) It was long matter of doubt how this compofition due to the fuperior upon the entry of fingular fuccefiors fould be regulated. The matter at latt received a folemn decifon; finding, That the fuperior is entitled, for the entry of fingular fucceffors, in all cafes where fuch entries are not taxed, to a year's rent of the fubject, whether lands or houfes, as the fame arefet, or may be fet at the time; deducting the feu-duty and all public burdens, and likewife all annual burdens impofed on the lands by confent of the fuperior, with all reafonable annual repairs to houfes and other perithable fubjects.

Law of perior's riglt of property revives, and is confolidated fith the fuperiority, without the neceflity of a new infefment; but the inftument of refignation munt be recurded.
8. Refignations in fazorem are made, not with an intention that the property retigned fhould remain with ti:e fuperior, but that it thould be ngain given by him, in favour either of the refigner himelf, or of a third party; confequently the fee re:nains in the refigner, till the perfou in whofe favour refignation is made gets his right from the fuperior perfected by feitin. And becaufe refignation, in favorem are but incomplete perfonal deeds, our law has made no provilion for recording them. Hence, the firf feilin on a fecond refignation is paeferable to the lats reifu upon the firt refignation ; but the fuperior, accepting a fecond relignation, whereupon a prier feiin may be taken in prejudice of the firft refignatory, is lizble in damages.
9. By our former decilions, one who was vefted with a nerfonal right of lands, i. e. a right nut completed by feifin, effetually divelted himfelf by difponing it to another: after which no right remained in the difpo. ner, which could be carried by a fecond difpofition, becaute a perfonal right is no more than a jus obligationis, which may be transferred by any deed futiciently expeelling the will of the granter. But this doctrine, at the farne time that it rendered the fec:rity of the records extiemely uncertain, was not truly applicable to luch rights as required feim to complete them; and therefore it now cbtains, that the granter even of a perfonal right of lands is not fo divelled by conveying the righ: to one perton, but that he may effectually make i: over aftersards to another; and the preference beiween the two dues not depend on the dates of the dif. pofitions, but on the prierity of the feifins following up. ori them.

## Sect. Villi. Of Redievzable Rights.

1. An beritable right is faid to be redeemable, when it contains a right of reverfion, or rerurn, in favour of the perfon from whom the right nows, Reverions are either legal, which arife from the law itfelf, as in adjudications, which law declares to be redeemable within a certain term after their date; or cunvention. al, which are conflituted by the agreement of parties, as in wadets, right; of annualrent, and rights in fecurity. A rradfet (from wad or pledge) is a right, by which lands, or other heritable fubjeets, are impignorated by the proprietor to his creditor in fecurity of his debt; and, like other heritable rights, is perfected by feifin. The debtor, who grants the wadfer, and has the right of reverfion, is called the reverfer; and the creditor, receiver of the wadfer, is called the was. selter.
2. W'adfets, by the prefent practice, are commonly made out in the form of mutual contracts, in which one party fells the land, and the other grants the right of reverfich. When the right of reverfion is thus in. corporated in the body of the wadiet, it is effectual without regiffration; becaufe the fingular fueceffor in the wadfet is, in that cafe, fufficiently certified of the reverlion, though it be not regilered, by looking into his own right, which bears it in gremio. But where
the right of reverfion is granted in a feparate isriting, it is ineflectual againft the fingular fuccelior of the wadfetter, unlefs it be regillered in the regifter of feilins within 60 days after the date of the feifin upon the wadfet.
3. Rights of reverfion are generally efteemed friaitiReverfion is juris; yet they go to heirs, though heirs thould not be t'iatijuris. mentioned, unlel's there be fome claufe in the right, difcovering the intention of parties, that the reverion flould be perfonal to the reverfer himfelf. In like manner, though the right fhould not exprefs a powce to redeem from the wadietter's heir, as well as from himfelf, redemption will be competent againg the heir. All our lawyers have altirned, that reverfions cannot be affigned, unlefs they are taken to affignees; but from the favour of legal diligence, they may be adjudged.
4. Reverfions commonly leave the reverfer at liberty kiedempe to redeem the lands quandocunque, without relriction tion. in point of time; but a claufe is adjected to fome reverfions, that if the deb: be not paid againit a determinate day, the right of reverfion thall be irritated, and the lards thall become the irredeomable property of the wadfetter. Neverthelefs the irritancy being penal, as in wadfets, where the fum lent falls alway: hort of the value of the lands, the right of redemption is by indulgence continued to the reverfer, cyen after the term has expired, while the irritancy is not declased. But the reverfer, if he does not take the benefit of this indulgence within 40 years after the lapie of the term, is cut out of it by prefcription.
5. If the reverfer would redeem his lands, he mu.t ufe an order of redemption againh the vadfetter : the firf thep of which is premonition (or notice given under form of inflrument) to the wadfetter, to appear at the time and place appointed by the reverfion, then and there to receive payment of his debt, and there. upon to remounce his right of wadfet. In the voluntary redemption of a right of wadfer holden bafe, a renunciation duly regittered re-elablihes the reverier in the full right of the lands. Where the wadret was granted to be holden of the granter's fuperior, the fuperior mult receise the reverfer, on payment of a year's rent, if he produce a difpolition from the wadfetter, containing procuratury of refignation. If, at execut. ing the wadfet, the fuperior has granted letters of regrefs, i. e. an obligation again to enter the reverfer Letters of upon redemption of the lands, he will be obliged to regref. receive him without payment of the year's rent. But letters of regrefs will not have this effeet againt fingular fuccefiors in the funeriority, if they are not regif :red in the regiter of reverfions. All wadfets that remain perfonal rights, are extinguilhed by fimple dif. charges, though they fhould not be recorded.
6. If the wadfeticr either does not appear at the Redenptime and place appointed, or refufes the redemption tion mones. money, the reverfer mufl confign it under form of inAr rument, in the hands of the perfors appointed in the right of reverfion: or, if no perfun be named, in the hands of the clerk to the bills, a clerk of feffion, or any refponfable perfon. An inflrument of confignation, with the confignatory's receipt of the money configned, completes the order of redemption, ftops the farther currency of intereft againft the reverfer, and

Law of founds him in an action for declaring the order to be Scorland. formal, and the lands to be redeemed in confequence
of $i t$.
7. After a decree of declarator is obtained, by which the lands are declared to return to the debtor, the configned money, which comes in place of the lands, becomes the wadfetter's, who therefore can charge the conignatory upon letters of horning to deliver it up to him; but, becaufe the reverfer may, at any time before decree, pals from his order, as one may do from any other flep of diligence, the conligned fums continue to belong to the reverfer, and the wadfetter's intereft in the wadfet continues heritable till that periot.
8. If the wadletter choofes to have his money rather than the lands, be mult require from the reverfer, under form of inttrument, the fums due by the wadfet, in terms of the right. The wadfet-fums may be heritable, notwithfanding requifition, which may be paffed from the rwadfetter even after the reverfer has configned the redemption money in conlequence thereof.

Waliets
pri and improper.
9. Wadfets are either proper or improper. A proper wadlet is that whereby it is agreed, that the ufe of the land fhall go for the ufe of the money; fo that the wadietter tales his hazard of the rents, and enjoys them without accounting, in fatisfaction, or in folutum of his interett.
10. In an improper wadfet, the reverfer, if the rent Thould fall fhort of the intereft, is taken bound to make up the defieiency; if it amounts to more, the wadietter is obliged to impute the excrefcence towards extinction of the capital: And, as foon as the whole fums, principal, and interelt, are extingui hed by the wadfetter's poilellion, he may he compelled to renounce, or dive!t himfelf in favour of the reverfer.

It. If the wadfetter be entitled by his right to enjo: the rents without accounting, and if at the fame time the reverfer be fubje?ted to the hazard of their deficiency, fucin contract is juftly declared ufurious: and alfo in all proper wadfets wherein any unreafonable advantage has teen taken of the debtor, the wadfetter mult (by act 1661 ), during the not requifition of the fum lent, either quit his poffefion to the debtor, upon his fiving fecurity to pay the interet, or fubject himfelf to account for the furplus rents, as in improper wadiets.
Risht of
12. Infeftments of annualrent, the nature of which arimalrent. has been explained, are alfo redeemable rights. A right of annualrent does not carry the property of the lands; but it create a real nexus or burden upon the property, for payment of the interelt or annualrent contained in the right ; and conlequently the bygone interents due upon it are debita fundi. The amualrenter may therefore either inhill in a real action for obtaining letters of poinding the ground, or fue the tenaut in a perfonal action towards the payment of his pall intercn: and in a comperition for thofe rents, the annualrenter's preference will not depend on his having ufed a prinding of the ground, for his aight was completed by the feifin; the power of poinding the ground, arisug from that antecedent right, is merce faculatis, and need not be exercifed, if payment can be otherwife got. As it is only the inicrelt of the fum lent which is a lurden upon the lands, the annumbenter, if he
wants his principal fum, cannot recover it either by Law, poinding or by a perfonal retion againft the debtor's Scotlar tenants ; but mult demand it from the debtor himfelf, on his perfonal obligation in the bond, either by requifition, or by a charge of letters of horning, according as the right is drawn.
13. Rights of annualrent, being fervitudes upon the property, and corfequently confillent with the right of property in the debtor, may be extinguilhed without refignation.
14. Infeftnsents in fecurity are another kind of re-Rights o deemable rights (now frequently ufed in place of rights fecurity. of annualrent), by which the receivers are infeft in the lands themfelves, and not fimply in an amualrent forth of them, for fecurity of the principal fums, interef, and penalty, contained in the rights. If an infeftment in fecurity be granted to a creditor, he may thereupon enter into the immediate poffeffion of the lands or annualrent for his payment. They are extinguifhed as rights of annualrent.
15. All rights of annualrent, rights in fecurity, and generally whatever conltitutes a real burden on the fee, may be the ground of an adjudication, whieh is preferable to all adjudications, or other diligences, intervening between the date of the right and of the adjudication deduced on it; not only for the principal fum contained in the right, but allo for the whole pall intereft contained in the adjudication. This preference arifes from the nature of real debts, or debita fundi: but in order to obtain it for the interell of the intereft accumulated in the adjudication, fuch adjudication muft proceed on a procefs of poinding the ground.

## Sect. IX. Of Servitudes.

1. Servitude is a burden affecting lands, or rather heri- Different table fubjects, whereby the proprietor is either rettran kinds of ed from the full ufe of what is his own, or is obliged to fervitude. fuffer another to do fomething upon it. Servitudes are either natural, legal, or conventional. Nature utfelf may be faid to confurute a fervitude upon inferior tenements, whereby they nult receive the water that falls from thofe that 1 tand on higher ground. Legal fervitudes are eftabliftsed by nature or cuftom, from confiderations of public policy ; among which may be numbered the reftraints laid upon the preprietors of tenements within the city of Edinburgh. There is as great a varicty of conventional lervitudes, as there are "ays by which the exercife of property may be reftrained by paction in favour of ancther.
2. Conventional fervitudes are conftituted, either by grant, where the will of the party burdened is exprefled in writing: or by prefeription, where his confent is prefumed from his acruiefcence in the burden for 40 years. A lervitude conftituted by writing, or grant, is not effectual againft the granter's fingular fucceffors, unlefs the grantee has been in the ufe or exereife of his right: but they are valid againft the granter and his heirs even without ufe. In fervitudes that may be acquired by prefcription, 40 years exercife of the rights is fufficient, without any title in writing, other than a charter and fcifn of the lands to whicls the fervitude is claimed to be due.
3. Servitudes conflituted by srant are no: effectual,
law of in a quefion with the fuperior of tice temenents burdened with the fervitude, unlefs his confent be adhibited; for a fuperior cannot be hurt by his valfal's deed : but where the fervitude is acquired ly prefcription, the confent of the fuperior, whofe right afforded him a good title to interrupt, is implied. A fervitude by grant, though followed only by a partial porfeffion, muft be governed, as to its extent, by the tenor of the grant ; but a fervisude by prefcription is limited by the meafure or degree of the ufe had by him who prefribes: agreeable to the maxim, Tantunn praficriptum, quantumn polfeflum.
4. Servitudes are either predial or perfonal. Predial ferviludes are burdens impoofed upon one tenement, in favour of anothcr tenenent. That to which the fervitude is due is called the dominant, and that which owes it is called the firvient tenement. No perfon can have right to a predial fervitude, if he is not proprietor of fome dominant tenement that may have benefit by it ; for that right is annexed to a tenement, and io cannot pafs from one perfion to another, unlef's fome tenement goes along with it.
5. Predial fervitudes are divided into rural fervitudes, or of lands; and uban fervitudes, or of houfes. The rural fervitudes of the Romans were iter, actus, evia, aquerduł7us, aquctiaufus, and jus pafcesdi pecoris. Similar Cervitudes may be conftituted with us, of a footroad, horle-road, cart-road, dams and aqueducts, watering of cattle, and pafturage. The right of a highway is not a fervitude conflituted in favour of a particular tenement, but is a right common to all traveilers. The care of high-ways, bridges, and terries, is committed to the iheriff, juttices of peace, and commilioners of fupply in each llirc.
6. Common paiturage, or the right of feeding one's cattle upon the property of another, is fometimes confituted by a general claufe of falurage in a charter or difpolition, without mentioning the lands burdened; in which ca?e, the right comprehends whatever had been formerly aporooriated to the lands difponed out ot the granter's own property, and likewife all palturage due to them out of other lands. When a right of pafturdge is given to feveral neighhouring proprietors, on a moor or common belonging to the granter, indefinite as to the number of cattle to be pattured, the extent of their feveral rights is to be proportioned according to the number that each of them can fodder in winter upon his nwn dominant tenement.
7. The chief fervitudes of houfes among the Romans were thofe of fupport, viz. tigni imamittendi, and oneris ferendi. The filt was the right of fixing in our neighbour', 'wall, a joit or beam from our hou'e : the fecond was that of relling the weight of one's houfe upon his neiz thbour's wall.
8. With uc, where different floors or ftories of the fame houfe belong to difierent perfons, as is frequent in the city of Edinburgh, the property of the houle cannot be faid to be entirely divided; the roof remains a common roof to the whole, and the area on which the houfe flands fupports the whole; fo that there is a communication of property, in confequence of which the proprietor of the ground floor mutt, without the connliution of any fervitude, uphold it for the fupport of the upper, and the owner of the higheff flory mult uphold that as a cover io the lower. When the high.
of is divided into garrets among the feveral proprictors, each proprietor is obliged, according to this rule, to uphold that part of the roof which covers his own garret.
9. No proprietor can build, fo as to throw the rain water falling from his own houfe, immediately upon his neighbour's ground, without a fpecial fervitude, which is called of Aillicide; but, if it falls within his own property, though at the fmallelt dillance from the march, the owner of the inferior tenement mull reccive it.
10. The fervitudes altius non tollendi, et non officiendi luminibus vel profpectui, reftrain proprietors from raifing their houfes beyond a certain height, or from making any building whatfoever that may hurt the light or profpect of the dominant tenement. Thefe fervitudes cannot be confituted by prefeription alone: for, though a proprietor fhould have his houfe ever fo low, or hould not have built at all upon his grounds for 40 years together, lie is prefumed to have fo for his own conveniency or profit; and therefore cannot be barred from afterwards building a houfe on his proper$\mathrm{t} y$, or railing it to what height lie pleafes, unleis he be tied down by his own confent.
11. We have two predial fervitudes to which the Servitude of Romans were flrangers, viz. that of fuel or feal and faal and divot, and of thirlage. The firt is a right, by which the osner of the dominant tenement may tur: up peats, turfs, feals, or divo:s, from the ground of the fervient, and carry them off either for fuel, or thatch, or the other ufes of his own tenement.
12. Tiilrlage is that fervitude, by which fands are Thirlage. aftricted, or thirled, to a particular mill; and the poffeffors bound to grind their grain there, for payment of certain multures and fequels as the agreed price of grinding. In this fervitude, the mill is the dominant tenement and the lands altricted (which are called a!fo the thirl or fucken) the fervient. Multure is the quantity of grain or meal payable to the proprietor of the mill, or to the multurer his tack fman. The fequels are the fmall quantities given to the fervants, under the name of knavefhip, ba noock, and lock or rowpen. The quantities paid to the mill by the lands not aAtricted, are generally moportioned to the value of the labour, and are called out-town or out-fucken mulures; but thofe paid by the thirl are ordinarily higher, and are called $i^{i n}$ tozen or in-fucken multures.
13. Thirlage may be conllituted by a tandholder, when, in the difpofition of certain lands, he altricts them to his own mill ; or when in the difpolition of a mill, he altries his own lands to the mill difponed; or when in letting his lands, he makes it a condition in the tacks. The crant of a mill with the gencral claufe of multures, without fpecifying the lands aftricted, conveys the thirlage of all the lands formerly altriged to that mill, whether they were the property of the granter, or of a third party.
14. A lefs formal coallitution ferves to aftrict barony lands to the mill of the barony, than is neceflary in any other thirlage; which perhaps proceeds from the effects of the union betwist the two. Hence, if a baron makes over the mill of a barony, cunn multuris, or cum africtis multurir, it infers an antriction of the barony lands to the mill conveyed, although they had not furmerly been altriated. Bit if prior to the baron's
L.aw of Scotland.
conveyance of his mill cum multuris, he had fold any part of the barony lands to another cum multuris, the firit purchafer's lands are not aftricted by the pofterior grant ; for a right of lands with the multurec, implies a freedom of the le lands from thirlage.
15. Thirlage is either, 1. Of grindable coms; or, 2. Of all growing coms: ur, 3. Of the invecta at il. fata, i, e. of all the grain brought within the thirl, thoneth of another growth. Where the thirlage is of grincable grain, it is in practice reftricted to the conns which the temants have occation to grind, either fur the fupport of their families, or for other ufcs; the furplus may be carried out of the thirl ummanfactured, without being liable in multure. Where it is of the grana crefcentia, the whole grain growing upon the thirl is afticted, with the exceptions, 1. Of feed and horfecom, which are deftined to ufes incunfiftent with grinding; and, 2. Of the farm duties due to the landlord, if they were delifered in grain not grimded. But, if the rent be larable in meal, llour, or malt, the grain of which thefe are made mult be manufactured in the dominant mill.
16. The thirlage of invecta ef illata is feldom conftituted but againft the inhabitants of a borough or vil. lage, that they fhall grind all the unmanuactured grain they import thither at the dominant miil. Nulture, therefore, cannot be exacted in a thirlage of invecta ei illata, fo: tlour or ontmeal brought into the fervient tenement, un'els the importer had bought it in grain, and grinded it at another mill. The fame grain that owes multure, as granum crefoens, to the mill in whole thirl it grew, if it flall be afterwards brought within a horough where the invecta et illata are thirled, mult pay a fecond multure to the proprietor of that dominant tenement: but, where the right of thefe two thinlages is in the fame proprictor, he cannot exant both. Where lands are thirled in general terms, without exprefing the particular nature of the fervitude, the lighteft thirlage is prefamed, from the favour of liberty; but in the atriction of a borough or village, where there is no growing grain which can be the fubject of thirlage, the altriction of invecto es illata muft be necellarily underfood.
17. Thirlage, in the general cafe, cannot be efla. blifte-i by preleription alone, for iis quis funt mera fa, cultatis non praforibitur; but where one hat paid for 40 years together the heavy in-fuclien muliures, the flighten title in writing will fubjeet his lands. Thirlage may, contrary to the commons sule, be conftituted by prefcription alone, 1. Where one pays io a will s certain fum, or quantity of grain yearly, in name of multure. wherher he grinds at it or not, (called dry multure). 2. In mills of the king's property; which is conttituted jure corons, without, titles in writing; and, where he derives right from another, his titles are more liable to be loft. This is extended in practice to mills belongiug to church lands, where thirty vears nofielion is decmed cquivalent to a title ist writing, from a prefumption that their rights werm de. ftroved at the Reformation. Though thislage itfelf can not be confituted by mere polfellion, the proportion of multure payable to the dominant tencment may be fo fixed.
18. The poffeffiors of the land afticted are bound to ugholit the rill. repair the dam dytes and ayue.
ducts, and bring iome the militiones. Thefe fervices, though rat exprefled in the conllitution, are implied.
19. Servitudes, being reliraints upon property, are Servit: Aricti juris: they are net thesefore prefumed if the are $A 1$ atts apon which they are claimed can be explained coin-juriso filturly with freedom: and wlien fersitudes are confituted, they ought to be ufed in the way leaft burdenfome to the fervient tenement. Hence, one who has a fervitude of peats upon inis neighbour's mofs, is not at liberty to extend it for the ufe of any manufac. thre which may require an extraodinary cxpence of fuel : but mut contine it to the natural ules of the do. minaut tenement.
20. Servitudes are extinguifhed, (:.) Co:fufione, when the perion cumes to be promietnr of the dominaut and fervient tenements; for res fua momini forvil. and the ufe the proprietor therefure makes of the lervient tenamert is not jure firvilutio, but is nn act of ploperty, (2.) By the perining eitler of the domi. nant of Cervient tenement. (3.) Scrvitules are loik non utendu, by the dominant tenement neglecting to ufe the right of 40 years; which is confidered as a de. reliction of it, though he who has the fervient tene. ment thould have made no interruption by doing acts contrary to the fervitude.
21. Perfonal fervitudes are thote by which the pro. perty of a fubject is burdened, in favour, not of a tcnement, but of a perfon. The only perfonal Cervitude known in our lasw, is ufufruct or liferent; which is a right to ufe and enjoy a thing during life, the fubitance Liferent of it being preferved. A liferent cannot therefors be conflituted upon things which perih in the ufe; and though it may upon fubjects which gradually wear out by time, as houfehold furniture, \&cc. yet with us, it is generally applied to heritable fubjects. He whofe property is burdened, is ufually called the far.
22. Liferents are divided into convention and le-liferent gal. Conventiona! liferents are either fimnle, or by referation. A fimple lifterent, or by a feparate conithtution, is that which is granted by the proprietor in favour of another: And this lort, contrary to the na. ture of predial lervitudes, requires feifin in order to afm feet fingular fuccefiors; for a liferent of lands is, in ftrict fpeech, not a forvitude, but a right refembling property which conltitutes the liferenter vallal for life; and fingular fuccettors have no way of difcuvering a liferent right, which perlsaps is not yet commenced, but by the records: whereas, in predial lervitudes, the con. flant whe of the dominant tenement makes them pub. lie. The proper right of liferent is intranfinifible; ofitus uffifrectuarii inherrit; When the profits of the liferented lubjeç are tranfmitted to another, the right becomes merely perfonal: for it entitles the affignee to the rent, not during his own life, but his cedent's; and is therefore carried by fimple affignation, without feim.
23. A liferent by refervation, is that which a propricto reierves to himfelf in the fame writing by which he conveys the fee to amother. It reapures no feifin; for the granter's formor feifon, which virtually included the liferent, Rill labsills as to the liferent which is exprefsly referved. In conjunet infefements taken to hufhand and wife, the wife's sight of conjunst fee relolves, in the seneral cafe, ino a liferent.

- 24. Liferents, by law, arc the veics aud the cour. Tere
tesy. The terce (terria) is a liferent competent by law to widows, who have net accepted of fpecial provifions, in the third of the heritable fubjects in which their humbands died infeft : and takes place only where the marriage has fubfilted for year and day, or where a chith has been hom alive of it ( $B$ ).

25. The terce is not limited to lands, but extends to teinds, and to fervitudes and other burdens affecting lands: thus, the widow is ertitled. in the right of her terce, to a liferent of the third of the fums fecared, either by rights of annualrent, or by rights in fecurity. In improper wadfets, the terce is a third of the fum lent: In thofe that are proper, it is a third of the wadfet lands; or, in cale of redemption, a third of the redemption money. Neither right of reverfion, fuperiority, nor patronage, fall under the terce; for none of thefe have fixed profits, and fo are not proper fubjects for the widow's fubfifience; nor tacks, becaufe they are not feudal rights. Burgage tenements are allo excluded from it, the rea on of which is not fo obvious. Since the huband's feifin is both the meafure and fecurity of the terce, fuch debts or diligences alone, as exclude the huthand's Feifin, ean prevail over it.
26. Where a terce is due out of lands burdened with a prior terce ftill fubfifting, the fecond tercer has only right to a third of the two thirds that remain unaffected by the firf terce. But upon the death of the firft wido: whereby the lane are diffurdened of her terce, the leifer terce becomes enlarged, as if the firt had never exilied. A widow, who has aceppted of a fuecial provifion from her hutband, is thereby excluded from the terce, unlefs fuch provifion fuall contain a claufe that the thall have right to both.
27. The widow has no title of poffeflion, and fo cannot receive the rents in virtue of her terce, till the be ferved to it; and in order to this, fhe mult obtain a brief out of the chancery, directed to the fheriff, who calls an inqueft, to take proof that fhe was wife to the deceafed, and that her hulland died infeft in the fubjeets contained in the brief. The fervice or fentence of the jury, finding thefe points proved, does, without the neceffity of a retour to the chancery, entitle the wife to enter into the poffeltion; but fhe can only poffefs with the heir pro indivifo, and fo cannot remove tenants till the theriff kens her to her terce, or divides the lands between her and the heir. In this divifion, after determining by lut or kavil, whether to begin by the fun or the thade, i. e. by the eaft or the weft, the fheriff fets off the two firfl acres for the heir, and the third for the widon. Sometimes the divifion is exccuted, by giving one entire farm to the widow, and two of equal value to the heir. The widow's right is not properlv conlituted hy this fervice; it was conftiuted Lefore by the hufband's feifin, and fixed by his death ;
the fervice only declares it, and fo eritilles her to the Law of third part of the rents retro to her hurband's death, $\underbrace{S \text { notland. }}$ preferable to any rights that may have affected the lands in the intermediate period between that and her own fervice. The relid, if fhe was reputed to be lawful wife to the deceafed, muft be ferved, notwithilland. ing auy objections by the heir againt the marriage, which may be afterwards tried by the eommiliary.
28. Courtefy is a liferent given by lavv, to the fur- Courtefy. viving hubband, of all his wife's heritage in which the died infeft, if there was a child of the marriage born alive. A marriage, though of the langeit continuance gives no right to the courtefy, if there ivas no iflue of it. The child born of the marriage mun be the mother's heir: If the had a child of the former marriage, who is to fucceed to her eflate, the huiband has no right to the courtefy while fueh ehild is alive; fo that the courtely is due to the hufband, rather as father to an heir, than as hutband to an heirefs. Heritage is here oppofed to conquett ; and $f_{0}$ is to be underitood only of the heritable rights to which the wite fueceedcd as heir to her anceflors, excluding what the herfelf had aequired by fingular titles.
29. Becaufe the hulband enjoys the liferent of his wife's whole heritage, on a lucrative title, he is confirered as her temporary repreifntative ; and fo is liable in payment of all the yearly burdens chargeable on the fubject, and of the current interell of all her debefs, real and perforial, to the value of the yearly rent he enjoys by the courtefy. The courtefy ueeds no folemnity to its conflitution: That right which the hurband had to the rents of his wife's eftate during the marriage, jure mariti, is continued with him after her death, under the name of courtcfy, by an act of the law itfelf. As in the terce, the huiband's feifin is the ground and meafure of the wife's right; fo in the courtely, the wife's feifin is the foundation of the hurband's; and the two rights are, in all other refpects, of the fame nature; if it is not that the courtefy extends to burgage holdings, and to fuperiorities.
30. All liferenters muft ufe their right falva rei fubfintia: whatever therefore is part of the fee itfelf, cannot he encroached on by the li'erenter, c. g. wood's or growing timber, even for the necelfary ufes of the liferented tenement. But, where a coupice or fitrid coxdua has heen divided into hags, one of which was in ufe to be cut annually by the proprietor, the liferenter may continue-the former yearly cuttings; beeaufe thefe are confidered as the annual fruits the fubject was intended to yield, and fo the proper fubject of a liferent.
31. Liferenters are bound to keep the fubject liferented in proper repair. They are alfo burdened with the alimony of the heir, where he has not enough for maintaining himfelf. The bare right of apparency founds
(B) In the cafe referred to, when treating of the effects of the diffolution of marriage within the year with:out a living child, and where no fpecial provifi,ns had been granted to, or accepted by, the widow; the did not demand her legal provifions of terce or jus relicte, but merely infifted, that as widow the was entitled to be alimented out of the heritahle eftate of which her hufband died poleffed: So that the decifion in that cafe cannot fo properly be faid to be an alteration in the law, as an equitable interpofition of the court of feflion, in their capacity as a court of equity, in order to grant a fubfiftence to the widow of a man whofe ellate was fully fuffcient, and who, it could not reafonably be prefumed, would have inclined that his widow thon'd te left: deftitute, when his eftate went perhaps to a diffant feries of heirs.
fornds the aftion againf the liferenter. It is a burden perfonal to the life enter himfelf, and cannot be thrown upon his adjudging creditors as coming in his place by their diligences. Liferenters are alfo fubjected to the payment of the yearly cefles, fipends, \& c . falling due during their right, and to all other burdens that attend the fubject liferented.
32. Liferent is extinguighed by the liferenter's death. That part of the rents wbich the liferenter had a proper right to, before his death, falls to his executors; the relt, as never having been in bonis of the deceafed, goes to the fiar. Martimmas and Whitfunday are, by our cuftom, the legal terms of the payment of rent: confequently, if a liferenter of lands furvives the term of Whitfunday, his executors are entitled to the half of that year's rent, becaule it was due the term before his death; and if he furvives the term of Martinmas, they have right to the whole. If the liferenter, being in the natural pofleflion, and having firf forved the ground, thould die, even before Whitfunday, his executors are entitled to the whole crop, in refpest that both feed and induftry were his. In a liferent of money conflituted by a moveable borid, the executors have a right to the intereft, down to the very day of the liferenter's death, where no terms are mentioned for the payment thereof; but in the cafe of an heritable bond, or of a money liferent fecured on land, the interefts of liferenter and fiar (or of heir and executor, for the fame rules ferve to fix the interelts of both) are both governed by the legal terms of land rent, without regard to the conventional.

## Sect. X. Teinds.

1. Tcinds, or tithes, are that liquid proportion of our rents or goods, which is due to churchmen, for performing divine fervice, or exercifing the other fpiritual functions proper to their feveral offices. Moft of the canonifts affirm, that the precile proportion of a tenth, not only of the fruits of the ground, but of what is acquired by perfonal induftry, is due to the Chriftian clergy, of divine right, which they therefore call the proper patrimony of the church; though it is certain that tithes, in their infancy, were given, not to the clergy alone, but to lay-monks who were called pauperes, and to other indigent perfons. Charles the Great was the tirlt fecu'ar prince who acknowledged this right in the church. It appears to have been received with us, as far back as David I.
2. The perfon employed by a cathedral church or monaftery to ferve the cure in any church annexed was called a vicar, becaule he held the church, not in his own right, but in the right or vice of his employers; and fo was removeable at pleafure, and hao no thare of the benefice, other than what they thought fit to allow him: but, in the courfe of time, the appellation of vicar was limited to thofe who were made perpetual, and who got a flated mare of the benefice for their incumbency; from whence arofe the diftincion of benefices into parfonages and vicarages.
3. Parfonage teinds are the teinds of corn; and they are fo called becaufe they are due to the parfon or other titular of the benefice. Vicarage teinds are the fmall teinds of calves, lint, hemp, eggs, \& c. which were commonly given by the titular to the vicar who
ferved the cure in his place. The firf fort was univerfally due, unlefs in the cafe of their infeudation to laics, or of a pontifical exempticn; but by the cultoms of almoft all Chriftendom, the lefler teinds were not demanded where they had not been in ufe to be paid. By the practice of Scotland, the teinds of animals, or of things produced from animals, as lambs, wool, calves, are due though not accultomed to be paid : but roots, herbs, \&c. are not tithable, unlefs ule of payment be proved: neither are perfonal teinds (i. e. the tenth of what one acquires by bis own induftry) acknowledged by our law: yet they have been found due, when fupported by 40 years poffeffion.
4. The parfon who was entitled to the teind of corns, made his right effectual, either by accepting of a certain number of teind bolls yearly from the proprietor in fatisfaction of it; or, more frequently by drawing or feparating upon the field his own tenth part of the corns, after they were reaped, from the itock or the remaining nine-tenths of the crop, and carrying it off to his own granaries; which is called drawn teind.
5. After the Reformation, James VI. confidered him- Annexa felf as proprietor of all the church lands; partly becaufe the purpofes for which they had been granted were declared fuperftitious; and partly, in confequence of the refignations which he, and Queen Mary his mother, had procured from the bencficiaries: and eren as to the teinds, though our reformed clergy allo claimed them as the patrimony of the church, our fovereign did not fubmit to that doctrine farther than extended to a competent provifion for minifters. He therefore erected or fecularized leveral abbacies and priories into temporal lorditips; the grantees of which were called fometimes lords of erection, and fometimes titulars, as having by their grants the fame title to the erected benefices that the monafteries had formerly.
6. As the crown's revenue fuffered greatly by thefe erections, the temporality of all church benefices (i.e. church lands) was, by 1587, c. 29 . annexed to the crown. That fatute excepts from the annexation fuch benefices as were eftablifhed before the Reformation in laymen, whole rights the legiflature had no intention to weaken. Notwithftanding this flatute his majelty continued to make farther erections, which were declared null by 1592 , c. 119. with an exception of fuch as had been made in favour of lords of parliament fince the general act of amexation in 1587 .
7. King Charles I. foon after his fucceflion, raifed a reduction of all thefe ereclions, whether granted before or after the act of annexation, upon the grounds mentioned at length by Mr Forbes in his Treatife of Tithes, p. 259. At lat the whole matter was referred to the king himfelf by four feveral fubmiffions or compromifes; in which the parties on one fide were the titulars and their tackfimen, the bithops with the inferior clergy, and the royal boroughs, for the intereft they had in the teinds that were gifted for the provifion of minifters, fchool, or hofpitals within their boroughs; and, on the other part, the proprietors who wanted to have the leading of their own teinds. The fubmiffion by the titulars contained a furrender into his majelty's hands of the fuperiorities of their feveral erections.
8. Upon each of thefe fubmiffions his majefty pronounced feparate decrees arbitral, dated Sept. 2. 1629. which are fubjoincd to the acts of parliament of his reign.

Law of He made it hawtil to proprietors to fue the titulars for footland. a valuation, and if they thought fit for a fale alfo, of their teinds, before the commifioners named or to be named for that purpofe. The rate of teind, when it was polfefled by the proprietor jointly with the flock, for payment of a ceitain duty to the titular, and fo did not admit a feparate valuation, tras fixed at a fift part of the conlant yearly rent, which was accounted a reafonable furrogatum, in place of a tenth of the increale. Where it was drawn by the titular, and confequently might be valued feparately from the flock, it was to be valued as its extent fhould be afcertained, upon a proof before the commillioners; but in this laft valuation, the king diretted the fifth part to be deducted from the proved teind, in favour of the proprietor, which was therefore call the king's eafe. The proprietor fuing for a valuation gets the leading of his own teinds as foon as his fuit commences, providing he does not allow proteftation to be extracted againf him for not infitting.
9. Where the proprietor infifted alfo for a fale of his teinds, the ti:ular was obliged to fell them at nine years purchafe of the valued teind duty. If the purfuer had a tack of his own teinds, not yet expired; or if the defender was only tack:fman of the teinds, and fo could not give the purfuer an heritable right; an abatement of the price was to be granted accordingly by the commifioners.
10. There is no provifion in the decrees arbitral, for felling the teinds granted for the fuftentation of miniAters, univerfities, ichools, or hofpitals; becaule thefe were to continue, as a perpetual fund, for the maintenance of the perfons or focieties to whom they were appropriated; and they are exprefsly declared not fubject to dale, by 1690, c. $30 .-1693$, c. 23. By the lat of thefe acts, it is allo provided, that the teinds belonging to bithops, which had then fallen to the crown upon the abolihing of Epiicopacy, ilaould not be fubject to fale as long as they remained with the crown not difpofed of; nor thofe which the proprietor, who had right both to fock and teind, referved to limifelf in a fale or feu of the lands. But, though none of thefe teinds can be fold, they may be valued.
11. The king, by the decrees arbitral, declared his own right to the fuperiorities of erection which had been religned to him by the fubmiffion, refersing to the titulars the feu duties thereof, until payment by himfelf to them of 1000 meiks Scots for every chalder of feu vietual, and for each 100 merks of feu duty ; which right of redeeming the feu duties was afterwards renounced by the crown. If the church raffal thould confent to hold his lands of the titular, he cannot thereafter recur to the crown as his immediate fuperior.
12. In explaining what the conflant rent is by which the teind mult be valued, the following rules are obferved. Thie rent drawn by the proprictor from the fale of fubjects, that are more properly parts of the land than of the fruits, e. g. quarries, mine:als, moffes, \&c. is to be deducted from the rental of the lands; and alfo the rent of fupernumerary houles, over and above what is neceflary for agricultuse; and the additional rent that may lie paid by, the tenant, in confideration of the proprictor's undertaking any burden that law impofes on the tenant, c. g. uphold.

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ing the tenant's houles, becatife none of thefe articles are paid properly on account of the fruits. Orchards null alfo be deducted, and mill rent, becaufe the profits of a mill arife from indultry; and the corns manufactured there fuffer a valuation as rent payable by the tenant, and therefore ought not to be valued a lecond time againt the titular as mill rent. The ycarly expence of culture ought not to be deducted: for no rent call be produced without it : but, if an improvement of rent is made at an uncommon expence, e.g. by draining a lake, the proprietor is allowed a reatonable abatement on that account.
13. Notuithftanding the feveral ways of mifapply-Tcinds reing parochial teinds in the times of Popery, fome few decmable. bencfices remained entire in the hands of the parfons. ${ }^{8 c c}$ The minifters planted in thefe, after the Reformation, continued to bare the full right to them, as proper beneficiaries: but a power was afterwards granted to the patron, to redcem the whole teind from luch beneficiaries, upon their getting a competent tipend nodified to them; which teind fo redcemed, the patron is obliged to fell to the proprieter, at dix: years purchafe.
14. Some teinds are more directly fubject to an allocaticn for the minifter's flipend than others. The teinds in the hands of the lay titular fall frift to be allocated, who, fince he is not capable to tetve the cure in his own perfon, ought to provide one whio can; and if the titular, in place of drawing the teind, has fet it in tack, the tack duty is allocated: this fort is called free teind. Where the tack duty, which is the titula's intereli in the teinds, fails fluort, the tack itfelf is burdened, or, in other words, the furplus teind over and above the tack duty: but, in this cafe, the commiffioners are empowered to recompenfe the tackfman, by prorogating his tack for luch a number of years as they thall judge equitable. Where this likewife proves deficient, the allocation falls on the teinds heritably conveyed by the titular, unlefs lie has warranted his grant againl future augmentations; in which cafe, the teinds of the lands belongitig in property to the titular himfelf mult be allocated in the firft place.
15. Where there is fufficiency of free teinds in a parifh, the titular may allocate any of them he fhall think fit for the minititer's flipend, fince they are all his own; unlefs there has been a previous decree of locality : and this holds, though the flipend fhould have been paid inmemorially out of the teinds of certain particular lands. This right was frequently abufed by titulars, who, as foon as a proprietor had brought ai: action of fale of his teinds, allocated the purfuer's full teind for the Atipend, whereby luch action became ineffectual; it was therefore provided, that after citation in a fale of teinds, it faall not be in the titular's power to allocate the purfuer's teinds follely, but only in proportion with the other teinds in the parilh.
16. Minifters glebes are declared free from the pay-Minifters ment of teind. Lands cum decimis inchufis are allo ex-glebes, \& © . empted from teind. But in order to exempt lands'sempted from payment of teind, it is necelfary that the proprietor prove his right thereto, cum decimis inclu/fir, as far back as the above act of annexation $158 \%$.
17. Tcinds are debita fructuurn, not fundi." The action thercfore for bygone teinds is only perfonal, againh thofe who havc intermeddled, unlefs where the

40 titule:
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titular is infeft in the lands, in fecurity of ti:e valuer teinal duty. Where a tenant is, by his tack, bound to pay a joint duty to the landlord for llock and teind, without dillinguiling the rent of each, his cefence of a bone fide pasment of the whole to the iandlord has been fullained in a fuit at the inflance of a laic titular, but repelled where a churchman was purfuer. In both cafes the p.oprietor who receives fuch rent is liable as interneddler.
Inhibition ofteinis.

IS. In tackes of teinds, as of lands, there is place for tacit relocation: to lop the effeat of which, the titular mult obtain and exccute an inhibition of teinds agant the tach finan; which difers reuch from imhibition of land (explained under the rext fection), and is intended merely to interpel or inhibit the tackfman from farthe: intermedding. This diligence of inhibition may allo be ufed at the fuir of the titular, againt any other pofferior of the telirds; and if the tackiman or puffefor hall intermedale after the inhibition is esecuted, he is liable in a fpuizie.
19. Lands and teinds paifs by different titles: a difpofiton of lands, therefore, though granted by one who bas alfo right to the teind, will not carry the teind, unlefs it 11.2 a appear from fyecial circumanlances that a faite of both was denigned by the parties. In landa cum aiccimis inclufis, where the teinds are confolidated with the ftock, the rijht of both mult neceflarily go together in all cafes.

## Sf.ct. XI. Of Inhibitions.

- bxii.

1. The conflitution and tranfmifion of feudal rights being explained, and the burdens with which they are chargeable, it remains to be contidered how thefe rights may be affected at the fuit of creditors by legal
Diligenecs. diligencc. Diligences are certain forms of law, whereby a creditor endeavours to make good his payment, either by affecting the perfon of his debtor, or by fecuring the fuojects belonging to him from alienation, or by carrying the property of thefe fulljects to himfelf. They are cither real or perfonal. Real diligence is that which is proper to heritable or real rughts; perfonal, is that by which the perfon of the debtor may be fecured, or his perfonal eitate affected. Of the firlt fort we have two, viz. inhibition and adjudication.
2. Inhibition is a perfonal prohibition, which paffes by letters under the fignet, prohibiting the party inhibited to contrect any debt, or do any deed, by which any part of his lands may be aliened or carried off in prejudice of the creditor inhibiting. It mut be executed againt the debtor, perfonally, or at his dwelling houfe, as fummonfes, and thereafter publilhed and resiliered in the fame manner with interdictions, (fiee $\mathrm{N}^{\circ} \mathrm{claxxiii} .21$.)
3. Inlivition may proceed, either upon a liquid obligation, or even on an action commenced by a creditor for making good a claim not yet fuftained by the judge; which laat is called inhibition upon a cicpending action. The funmons, which conffitutes the dcpendence, mult be exccuted againt the debtor before the letters of inkibition pafs the fignet; for no fuit can be $f_{a}$ d to depend againf one till he be cited in it as a defender: but the effict of fuch inlibition is fuipended till decree be obtaised in the aation againht
the debtor; and in the fane manner, inhibitions on conditional de'ts have no fetet lill the condition be purtied. Inhibitions are not granted, wihout a trial of the caure, when they proceed on conditional debis. Ard though, in other cafca, inhibitions now pals of courfe, the lords are in ule to llay, or real them, either on the debtors ftorving caufe why the diligence Thuuld not proceed, or even ex oficio where the ground of the diligence is doubtf?!
4. 'lho:gls Enhibitiors by their uniform fly'e, dif-Limited able the debtor from folling his moveable as well asheritage.. his heritable eftate, their effect las been long jimited to heritage, from the interruption that luch an cm bargo upon moveables muft rave oiven to commerce; fo that debts contracted after inlibition may be the foundation of diingence againft the debtor's perbu and moveable eflate. An inlibition fecures the inhibitor againt the alienation, not only of lands that belonged to his debtor when he was inhibited, but of thole that he thall aftersvards acquire : but no inhibition can extend to fuch after-purchafes as lie in a juridiction where the inhibition was not regillered; for it could not have extended to thefe through they had been made prior to the inhibition.
5. This diligence only frikes againf the voluntary debis or deeds of the inlibited perfon: it does not reftrain him from granting necellary dseds, i. e. fuch as he was obliged to grant anterior to the inhibition, fince he might have been compelled to grant thefe before the inhibitor had acquired any right by his diligence. By tliis rule, a wadfetter or annualrenter might, after being inhioited, have effectualiy renounced his iight to the reverfer on payment, becaufe law could have compelled him to it; but to fecure inhibitors againtt the effect of fuch alienations, it is declared by act of federunt of the court of felfion, Feb. Ig. 1680, that, after intimation of the inhibition to the reverfer, no renunciation or grant of redemption fhall be fuftained, except upon declarator of redcmption brouglit by him, to which the inhibitor mult be made a party.
6. An inhibition is a diligence fimply prohibitory, $\mathrm{I}_{5}$ fimply fo that the debt, on which it procecds, continues per-prohibitor fonal after the diligence; and confequently, the inhibitor, in a queftion with anterior creditors whofe debts are not fruck at by the inhibition, is only preferable from the period at which his debt is made real by adjudication: and where debts are contracted on heritable fecurity, though poflerior to the inhibition, the inhibitor's debt, being perfonal, cannot be ranked with them; lae only draws back from the creditors ranked the fums contained in his diligence. The heir of the perfon inhibited is not reftrained from alienation by the diligence ufed againft his anceftor; for the prohibition is perfonal, affecting only the debtor argainft whom the diligence is ufed.
7. Irhibitions do not of themfelves make void the polterior debts or deeds of the perlon inhibited; they only afford a title to the ufer of the diligence to fet them afide, if he finds them hurtful to him: and even where a debt is a Rually reduced ca capite inlubirionis, fucl reduction, being founded folely in the inhibitor's intereft, is profitable to hims alone, and cannot alter the natural preference of the other creditors.
8. Inhibitions may be reduced upon legal nullities, Purging of
concern of the erediter is, that his debtor make up (ittes to the anceftor's elfate, which is done by a feecinl charge: but where the deceafed was the debior, the creditor mult firf charge his heir to enter in general, that it may be known whether he is to reprefent the debtor: if he does not cnter within forty days, the debt may be fixed agaiuft him lyy a decree of conthitution; after which the heritable rights belonging to the anceltor will fall to be attached; in doing which, the diligence to be ufed is different, according to the ftate of the titles in the ancefor's perfon: for if the anceltor ftood refted by infeftment, the heir mult be charged to cnter heir in fpecial ; but if the anceftor had but a perfonal right to the fubjects (i. e, not perfected by leifin), which would have been carried to the heir by a general fervice, then what is callad a geveral fpecin? charge mull be given to the heir. Thefe charges either fpecial or general fpecial, as the circumbances of the cafe may require, are by the ftatute $: 540$ made equivalent to the heir's actual entry; and therefore an adjudication led after the inducio of the charges are elapfed, effectually carries to the creditor the fubjeets to which the heir was charged to enter.
9. Appraifings in courle of time underwent many Adjudica= changes in their form and effect, till at length, by act tions.
1672, c. 19. adjudications were fubfituted in their place, and are carried on by way of action before the court of feffion. By that fatuie, fuch part of the debior's lands is to be adjudged as is equivalent to the principal fïm and intercit of the debt, with the compofition due to the fuperior and expences of infeferment, and a fifth part more in refpect the creditor is obliged to take land for his money. The debtor mult deliver to the creditor a valid right of the lands to be adjudged, or tranfumpts thereof, renounce the porleffion in his farour, and ratify the decree of adjudication: and law confiders the rent of the houles as precifely commenfurated to the interelt of the debt; fo that the adjudger lies under no obligation to account for the furplus rents. I: this, which is calied a fpecial adjudication, the legal, or time within which the debto: may redeem, is declared to be five years; and the creditor attaining poffeffion upon it can ufe no farther execution againit the debtor, unleis the lands be evicted from him.
10. Where the debtor does not produce a fufficient right to the lands, or is not willing to renounce the poffelfion, and ratify the decree (which is the cale that has moft frequently happened), the ftatute makes it lawful for the creditor to adjudge all right belonging to the debtor in the fame manner, and under the fame reverfion of ten years, as he could, by the former laws have appraifed it. In this lalt kind, which is called a general adjudication, the creditor muft limit his claim to the principal fum, intereft, and penaliy, without demanding a fifth part more. But no general adjudication can be infifted on, withont libelling in the fummons the other alternative of a fpecial adjudication; for fpecial adjudications are introduced by the flatute in the place of appraifings ; and it is only where the debtor refufes to comply with the terms thereof, that the creditor can lead a gencral inljudication.
11. Abbreviates are ordained to be made of all adjudications, which muft be recorded within 60 days after the date of the decree. In every other refpect, Scotland.
general adjuciications have the fame effects that appraifings had: culjudgers in poffellion are accountable for the furplus rents; a citation in adjudications renders the fubjeit litigious; fuperiors are obliged to enter adjudsers; the legal of adjud.cations does not expire duting the debtor's minotity, \&c. Only it may be obferved, that though appraifings could not proceed before the term of payment, yet where the debtor is versens ad inopiam, the court ex nobili officio admit adjudication for the debt before it be payable. But this fort being founded folely in equity, fubfits merely as a fecurity, and cannot carry the property to the creditor by the lapfe of any length of time.
Two kinds of adjudications.
12. There are two kinds of adjudication, which took place at the fame time with appraifings, and fill obtain; viz. adjudications on a decree cognitionis caufa,
otherwife called contra hereditatem jacentem; and adjudicatoons in implement. Where the debtor's apparent fieir, who is charged to enter, formally renounces the fuccellion, the creditor may ubrain a decree cognitionis caufa; in which, though the heir renouncing is cited for the fake of furm, no fertence condemnatory can lie pronounced againf him, in refpect of his renunciation:; the only effect of it is to fubjeet the hareditas jacens to the creditor's diligence.
13. Adjudications contra hereditatem jacentem, carry not cnly the lands themfelves that belonged to the deseafed, but the rents thereof fallen due fince his death; for thele, as an acceliary to the eftate belonging to the deceafed, would bave defcended to the heir if he had entered, which rule is applied to all adjudications led on a fpecial charge. This fort of adjudication is declared redeemable within feven years, by any en-adjudging creditor, either of the deceafed debtor or of the beir renouncing. The heir himfelf, who renounces, cannot be reftored againft his renunciation, nor $\operatorname{con}^{〔} \mathrm{e}$ quently redeem, if he be not a minor. But even a major may redeem indirectly, by granting a fimulate bond to a confident perfon: the adjudication upon which, when conveyed to himfelf, is a good title to redeem all other adjudications againt the lands belong. ing to his anceftor.
14. Adjudications in implement are deduced againlt thofe who have granted deeds without procuratory of refignation or precept of feifin, and refufe to diveft themfelves; to the end that the fubject conveyed may be effectually velted in the grantee. Thefe adjudications may be alfo directed againt the heir of the granter, upon a charge to enter. Here there is no place for a legal reverfion; for, as the adjudication is led for completing the right of a fpecial fubject, it mult carry that fuljeet as irredeemably as if the right had been voluntarily completed.
15. All adjudications led within year and day of that one which has been made fint effectual by feifin (where feilin is neceffary), or exact diligence for obtaining feiin, are preferable pari paflu. The year and day runs from the date of the adjudication, and not of the feifin or diligence, for obtaining it. After the days of that period, they are preferdhle according to their dates. All the co-adjudgers within the year are preFerable pari pa/fin, as if one adjudication bad been led for all their dehts. 'This makes the feifin or diligence on the firft adjudication a common right to the reft, who muft therefore refund to the owner of that dili-
gence his whole expence laid out in carrying on and completing it. And though that firf adjudication fhould be redeemed, the diligence upon it fill fubifits as to the reft. This pari pafis preference, however, does not deftroy the legal preference of adjudications led on debila funái ( fee $\mathrm{N}^{\circ}$ clsix. 15.) ; nor does it take place in adjudications in implement.

A new fort of adjudication has been lately introduced into the law of Scutiand by the act of the $2^{2} 3^{d}$ Geo. 1II. for rendering the payment of the creditors of infolvent debiors more equal and expeditious. Among the many other provitos in that fratute for ex. pediting the pasment of creditors, and leflening the expence of diligence againft the debtor's eflate, it is enacted, That upun an order from the court of teffiun or lord ordinary, the bankrupt fhall be bound to execute a difpofition or difpofitions, making over to the truftee or trultees chofen by the creditors the whole eftate real and perfonal, wherever fituated; and in cafe of the hankrupt's refufal, or of the order not being complied with from any sther reafon, the coust or the lord ordinaty frall, upon the application of the truftee, iflue an aft or decree, adjudging the property of the whole fequeflrated eftate to be in the trullee for behoof of the creditors; which fhall have the fame effect as if the bankrupt had executed the conveyance: and by a fubfequent claufe in the flatute, it is enacted; that this difpofition of the heritable eltate, together with the order of the court or lord ordmary on which it proceeds, or failing thereof, the decree of adjudication of the court or the lord ordinary, thall within 60 days of the date thereof be regifiered in the regitter of atsbreviates of adjudications; and fhall have the efiect to entitle the trultee for behoof of the whole creditars to rank in the fame manner upon the heritable eftate as if it had been a proper decree of adjudication, obtaincd at the date of the interlocutur awarding the fequef: tration ; accumulating the whole debts, principal and intereft, as at that period, and adjudging for lecurity or payment thereof, fo as to rank pari pafis with any prior effectual adjudication, and within year and day of the fame. By this act alfo, in order to leffen the number of adjudications, and confequently the expence upon a bankrupt eftate, it is declared, that intimation ftrall be made of the firlt adjudication which is called, fo as all crecitors who are in readinefs may, within fuch a reafonable time as may be alluwed, not exceed. ing twenty federunt days, produce their grounds of debt, and be conjoined in the decree to follow on faid firft adjudication. At the fame time it may be proper to mention, that this act is only temporary; and after eight years experience, will probably fuffer very confiderable alterations, when it fhall become neceffaty to digeft another bankrupt law for Scotland.
10. Before treating of judicial fales of bankrupts Sequeftra eftates, the nature of fequeftration may be ftortly ex-tion. plained, which is a diligence that generally uthers in actions of fale. Sequefration of lands is a judicial act of the court of feilion, whereby the management of an eftate is put into the hands of a factor or fteward named by the court, who gives fecurity, and is to be accountable for the rents to all having interetl. This diligence is competent, either where the right of the lands is doubtful, if it be applied for before either of the competiors has attained poffeflion, or where the eftate is

Law of heavily charged with debts: bat, as it is an unfayourable diligcnce, it is not admitted, unlefs that meafure folll appear neceflary for the fecurity of creditors. Sa'jeas not brought before the court by the diligence of creditors, canmot fall under fequettration; for it is the competition of creditors which alone founds the juril.liction of the court to take the difputed fubject into their poficfion.
11. The court of fefition who decrees the fequeltation has the nomination of the factor, in which they are direfted by the recommendation of the creditors. A facior appointed by the feflion, though the proprietor had not been infefi in the lands, has a power to reraore temants. Judicial factors muf, within fix months c.fter extracting their factory, make up a rental of the eflate, and a lift of the arrears due by tenants, to be put into the hands of the clerk of the procefs, as a charge againt themfelves, and a note of fuch alterations in the rental as may a terwards happen : and munt alfo deliver to the clerk annually a foheme of their accomnts, charge and difcharge, under heavy penalties. They are, by the nature of their office, bound to the farme degree of diligence that a prudent man adhibits in his own aftairs; they are accountable for the intereft of the rents, which they either have, or by diligence might have, recovered, from a year after their falling due. As it is much in the power of thofe factors to take advantage of the neceflities of creditors, by purchafing their debts at an undervaluc, all fuch purchafes made either by the factor himfelf, or to his behoof, are declared equivalent to an acquittance or extinction of the debt. No factor can warrantably pay to any creditor, without an order of the court of feffion; for he is, by the tenor of his commilfion, ditected to pay the rents to thofe who thall be found to have the beft right to them. Judicial faktors are entitled to a falary, which is gencrally flated at five per cent. of their intromiffions : but it is feldom afrertained till their office esnires, or till their accomnting ; that the court may modify a grenter or fmaller falary, or none, in proportion to the factor's integrity and diligence. Maily cafes occur, where the court of feffion, without fequeltration, name a factor to preferve the rents from perifhing ; e. g. where an heir is deliberating whether to enter, where a minor is withou tutors, where a fucceffion opens to a perfon refiding abroad; in all which cafes the factor is fubjected to the rules laid down in akt of fedcrunt, Feh. 13.1730.

As to fequeftrations under the bankrupt act before secited, the reader mult neceffarily be referred to the act itfelf; for being only temporary, as before mentioned, it feems quite inconfitent "uth the plan of this work to enter into a minute detail of the different regulations thereby laid down in cafes of fequeftration under it.
12. The wurd bankrupt is fometimes applied to perfons whofe funds are not fufficient for their debts; and fometimes, not to the debtor, but to his effate. The couth of feffion are enipowered, at the fuit of nay real creditor, to try the value of a bankrupt's effate, and foll it for the payment of his debts.
13. No procefs of fale, at the fuit of a creditor, can proceed without a proof of the debter's bankruptcy, or at leaft that his lands are fo charged with debts that no prudent perfons will buy from him; and thercfore
the fummons of fale muft comprehend the debtur's whole eflate. The debtor, or his apparent heir, and all the real creditors in poffeffion, mult be nade parties to the fuit ; but it is futhicient if the other creditors be called by an edictal citation. The fummons of fale contains a conclufion of ranking, or preference of the bankrupt's creditors. In this ranking, firf! and fe-kanking of cond terms are afligned to the whole creditors for exhi-creditor: biting in court (or producing) their tights and diligences; and the decree of certification proceeding thereupon, againft the writings not produced, has the fame effect in favour of the creditors who have produced their rights, as if that decrec had proceeded upon an action of redustion improbation. See $\mathrm{N}^{\circ}$ clesxiii. 3. By the late bankrupt aft, the fale may precede the ranking of the creditors, unlefs the court, upon application of the creditors, or any of them, fhall find fuficient caufe to delay the fale. The irredeemable property of the lands is adjudged by the court to the higheit offerer at the Cale. The creditors receiving payment mut graat to the purchafer abfolute warrandice, to the extent of the fum received by them; and the lands purchafed are declared diflurdened of all debts or deeds of the bankrupt or his ainceflors, either on payment of the price by the purchafer to the creditors accurding to their preference, or on confignation of it. By the act 1695, purchafers were hound to confign the price in the hands of the magiltrates of Edinburgh; but by §5. of the above act, they may confign it in the Ruyal Bank or Bank of Scotland. The only remedy provided to fuch creditors as judge themelves hurt by the fale or divifion of the price, even though they fhould be minors, is an action for recovering their flare of the price a a ainlt the creditors who have received it.
14. The expence of thefe proceflies is ditburfed by the factor out of the rents in liis hands; by which the whole burden of fuch expence falls upon the pofterior creditors.
15. Apparent lieirs are entitled to bring actions of fale of the eftates belonging to their anceffors, whether bankrupt or not ; the expence of which ought to fall upon the purfuer, if there is any evcrefcence of the price, after payment of the creditors: but if there be no excrefcence, the creditors, who alone are gainers by the fale, ought to bear the charge of it.
16. As procenes of ranking and fale are defigned for the common intereft of all the creditors, no diligence carried on or completed daring their pendency ought to give any preference in the competition; pendente lite, nihil innovandum.
17. It is a rule in all real diligences, that where a creditor is preferable on feveral different fulju-cts, he cannot ufe his preference arbitrarily, by favouring one creditor more than another; but muft allocate his univerfal or catholic debt proportionally againt all the fubjects or parties whom it affects. If it is material to fuch creditor to draw his whole pasment out of any* one fund, he may apply his debt fo as may beft fecure himfelf: but that inequality will be rectified as to the pofterior creditors, who had likewife by their rights and diligences, affected the fubjects out of which he drew his payment, by obliging him to affign in their favour his right upon the feparate futje?s which he dis' not ufe in the ranking; by which they may recur againft tbefe feprate fubjects for the thares which the

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Scutandi.
debt preferred might have drawn out of them. As the obligation to aflign is founded merely in cquity, the catholic creditor cannot be compelled to it, if this affigning Thall weaken the prefercnce of any feparate debi refled in himfelf, affecting the fpecial fubject fought to be afingned. But if a creditor upon a fpecial fubject thall acquire from another a catholic right, or a catholic creditor fhall purchafe a debt affecting a fpecial fub. ject, with a view of creating to the fpecial debt a higher degree of preference than was naturally due to it, by an arbitrary application of the catholic debt, equity cannot proted him from affigning in favour of the creditor excluded by fuch application, efpecially if, prior to the purchafe, the fubject has become litigious by the procefs of ranking.

## II. MOVEABLE RIGHTS.

The law of heritable rights heing explained, Movealle Rights fall next to be confidered; the doctrine of which depends chiefly on the nature of ubligations.

## Sect. XIII. Of Obligations and Contraỉs in General.

-clxxii. boligation.

An obligation is a legal tie, by which one is bound to pay or perform fomething to another. Every obligation on the perfon obliged implies an oppofite right in the creditor, fo that what is a burden in regard to the one is right with refpeet to the other; and all rights founded on obligation are called perfonal. There is this effential difference between a real and a perfomal right, that a jus in re, whether of property, or of an inferio: kind, as fervitude, entitles the perfon volled with it to poifels the fubject as his own; or if he is not in pofleftion, to denand it from the poffeffors: wheteas the creditor in a perfonal right has only jus ad rem, or a right to compel the debtur to fulfil his obligation; without any right in the fubject itfelf, which the debtor is bound to transter to him. One cannot oblige himfelf, but by a prefent act of the will. A bare relolution, therefore, or purpofe, to be vbliged, is aiterable at pleafure. one perfon is bound to another by the law of nature, but cannot be compelled by any civil action to the performance. Thus, though deeds granted by a minor laving curators, without their confent, are null, yet the minor is naturally obliged to perform fuch deeds; and parents are maturally obliged to provide their children in reaforable patrimonies. Natural obligations entitle the creditor to retain what he has got in virtue thereof, without being fubjected to reltore it. (2.) Obligations are merely civil, which may be fued upon by an action, but are elided by an exception in equity; this is the care of obligations granted through force or fear, \&c. (3.) Proper or full obligations, are thofe which are fupported both by equity and the civil fanclion.
3. Obligations may alfo be divided into, (t.) Pure, to which neither day nor condition is adjected. The?e may be exacted immediately. (2.) Obligations (c.: dic), which have a day adjetted to their performance. In thefe, dies Aatim cedit, - fed nou venit; a proper debt arifes from the date of the obligation, becaule it is ccrtain that the day will exift; but the execution is fuf-
pended till the lapfe of that day. (3.) Conditional obligations; in which there is no proper debt (dies non Scotlat cedii) till the condition be purified, becaufe it is porfible the condition may never exit; and which therefore are faid to create only the hope of a debe; but the granter, cven of thefc, has no right to refile. An obligation, to which a day is adjected that pollibly may never exift, implies a condition; dies incerius pro conditione liabetur. Thus, in the cafe of a provifion to a child, payable when ho attains to the age of fourteen, if the child dies before that age, the provilion falls.
4. Obligations, when confidered with regard to their canfe, were divided by the Romans into thofe arifing from contract, quafi contract, delict, and quafi delict: but there are certain obligations, even full and proper ones, which cannot be derived from any of thefe fources, and to which Lord Stair gives the name of obediential. Such as the obligation on parents to aliment or maintain their children; which arifes fingly from the relation of parent and child, and may be enforced by the civil magittrate. Under parents are comprehended, the mother, grandFather, and grandmother, in their proper order. This obilgation on parents extends to the providing of their iniue in all the neceflaries of life, and giving them fuitable education. It ceafes, when the children can earn a livelihood by their oun induftry; but the obligation on parents to maintain their indjgent children, and reciprocally on children to maintain their indigent parents, is perpetual. This obligation is, on the father's death, transferred to the eldelf Con, the heir of the family; who, as reprefenting the father, muft aliment his younger brothers and filters: the brothers are only entitled to alimony till their age of twen-ty-onc, after which they are prefumed able to do for themfelves; but the obligation to maintain the fifters continues till their marriage. In perfons of lower rank, the obiigation to aiiment the fifters ceafes after they are capable of fubfiting by any fervice or employment.
5. All obligations, arifing from the natural duty of reftitution, fall under this clafs ; thus, things given upon the view of a certain event, muft be refored, if that event does not afterwards exift : thus alfo, things given ob turpern caufam, where the turpitude is in the receiver and not in the giver, muft be reftored. And on the fame principle, one upon whofe ground a houfe is built or repaired by another, is obliged, without any covenant, to reflore the expence laid out upon it, in fo far as it has been profitable to him.
6. A contract is the voluntary agreement of two or Contract more perfons, whereby fomething is to be given or performed upon one part, for a valuable confideration, either puefent or future, on the other part. Conlent, which is implied in agreement, is excluded, (1.) By cror in the effentials of the contract: for, in fuch cafe, the party docs not properly contract, but errs or is deccived; and this may be alfo applied to contracts whicl take their rife from fralud or impolition. (2.) Confent is excluded by fuch a degree of reftraint upon any of the contracting parties, as extorts the agreement ; for where violence or threatening are ufed againt a pcrion, his will has really no part in the contract.
7. Loan, or muturim, is tliat contrat which obligesLoan. a perfon, who has borrosved any fungible fubject from another, to reftore to him as much of the fame kind,

Law of and of crual geodnefs. Whaterer reccives its eftimation in mmber, weight, or meafure, is a iungible; as com: wine, currat coin, \&c. 'lhe only preper fubject of this contract are things which cannot be ufed witheut cither their extinction or alienation : hence the property of the thing lent is neceffarily transferred by delivery to the borrower, who conferquently muit rim a! l the hazards either of its deterionation or its perithing. according to the rule, res perit fuo demino. Whace the borrower negisits to reflore at the time art place agiced on, the ellimation of the thing lent mult be made accoraing io its price at that time and in that piace ; becaule it would have been worth fo much to the lender. if the obligation had been duly performed. If there is non place nor time itipulated for, the value is to be fated according to the pice that the commodity gave when and where it was demanded. In the loan of money, the value put on it by public authority, and not its intrinfic wosth, is to be confidered. This contract is one of thefe called by the Komans unilateral, being obliggatory only on one part; for the lender is fubjcited to no obligation : the only action therefore that it produces, is pointed againft the boriever, that he may refore as much in quantity and quality as he bormed, together with the damage the lender may have fuficied through default of due per. formance.
S. Commodate is a fpecies of loan, gratuitous on the part of the lender, where the thing lent may be tifed, whout either its peribhing or its alienation. Hence, i: this fort of loan, the property continues with the lender; the only right the borrower acquircs in the fubject is its ufe, after which he mult reilore the indiridual thing that be borrowed: confequently, if the fubject perithes, it perilhes to the lender, malefs it has perithed by the borrower's fault. What degree of fault or negligence makes either of the contractirg parties liable to the other in damages, is comprehended under the following rules. Where the contract gives a mutual benefit to both parties, each contractor is bound to adhibit a middle fort of diligence, fuch as a man of ordinary prudence ufes in his affairs. Where only one of the parties has benefit by the contraet, that party nuft ufe exact diligence; and the other who has no adrantage hy it, is accountable only for dole, or for grofs omiffions, which the lare comfrues to be dole. Where one employs lefs care on the fubject of any contract which implies an exuberant tru!t, than he is known to employ in tis own affairs, it is conidered as dole.
9. Hence it will appear that this is a bilateral contract ; the borrower muft be exactly careful of the thing lent, and reftore it at the time fixed by the contract, or after that ufe is made of it for which it was lent: if he puts it to any other ufe, or neg?ects to refore it at the time covenanted, and if the thing perilhes thereafter even by mere accicent, he is bound to pay the value. On the other part the lender is obliyed to rellore to the bnrrower fuch of the expences dilburfed by him on that fubject as arofe from any uncommors accident, but not thole that naturally attend the ufe of it. Where a thing is lent gratuitoully, without fpecifying any lime of redelivery, it conllitutes the contract of precarium, which is revocable at the leviders plea. fure, and, being entered into from a perfonal regard to the liorrower, ceafes by his death.
10. Denofitation is alfo a bilatcrazi contract, by whi i, Law of one who has the cuftody of a thing committed to inm Scolard. (the depofitary) is obliged to reflore it to the depoli- D.antor. If a reward is bargained for by the depofitary tion. for his care, it refolves into the contrast of location. As this contract is gratuitous, the depolitary is only anfwerable for the confequences of grofs negleen; but after the depofite is redemanded, he is accomatable even for cafual misfortuncs. He is cntitled to a full indemnification for the lonfes he has fultained by the contract, and to the recovery of all fums expended by him on the fubject.
II. Als obligation arifes without formal paction, Nause, barely by a traveller's entering into an inn, hiip, or patabones? ftable, and there depofiting his goods, or purtins up his horfes; whereby the inmkeeper, fhipmafter, or ftabler, is acountable, not only for his own facts and thote of his fervants (which is an obligation implied in the very exercife of theie ensployments), but of the other gucits or pafiensers ; and, indeed, in every cafe, malefs where the goods have been loll damno fatali, or carried of by pirates or houfe-breakers. Not only the matlers of Ihips, but their cmployers, are liable eacin of them for the fhare that he has in the fhip; but by the prefent cuftom of trading nations, the goods brought into a fhip muit have been delivered to the malter or inate, or entered ino the thip books. Carriers fall within the intendment of this law; and practice has extended it to vintners within borough. The extent of the damage fultained by the party nay be proved by his own oath in litem.
12. Sequeltration, whather voluatarily confented to Sequefia by the parties, or authorized by the judge, is a kind oftion. depofite; but as to the office of fequelliree, to whole care the fubject in difpute is committed, is not confidered as gratuitous, he cannot throw it up at pleafure, as a common depofitary may do; and he is liable in the middle degree of diligence. Confignation of money is Confignav alfo a depofite. It may be made, either where the debetion. is called in quefion ly the debtor, as in fufperitions; or where the creditor refufes to receive his money, as in wadfets, \&c. The rilk of the configned money lies on the configner, where be ought to have made payment, and not confignation ; or has configned only a part; or has chofen for comfinnatory, a perfon meither named by the parties nor of yood credit. The charger, or other creditor, runs the rifk, if he has charged for fums not due, or has without good reafon refufed payment, by which refufal the confignation became neceffary. It is the office of a contignatory, to keep the money in fafe cullociy till it be called for: if therefore he puts it ont at interelt, he mull run the hazatd ot the debtor's infolvency; but for the fame realon, though he frould draw interef for it, he is liable in none to the configner.
13. Piedge, when oppofed to wadfet, is a contract, Pledge. . by which a debtor puts into the hands of his creditor a fpecial noveable fubject in Cecurity of the debt, to e redelivered on pavment. Where a fecurity is ctabuithed by law to the creditor, upon a dubject which continue in the debto 's poif tron, it has the fpecial name of an hypothee. Tradefmen and thip carpenters have IIypothec. an hypoitice on the houfe or thip recaited, for the materials and other charges of reparation ; but net for the expence of building a new inip. This, however,

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mat not now be underftod to apply univerfally : for the court of fenion, in different cafes which lately occurred before them, and founding upon the law and pratice of Ençland in fimilar cales, have found, thet no hypothec exifts for the expence of repairs done in a home port. Owners of haips have an hypothec on the cargo for the freight; heritors on the fraits of the stound; and landlords on the invecta et illata, for their rents. Writers alfo, and agents, have a right of hypothec, or macre properly of retention, in their conftituent's writing c, for their claim of pains and dibburfements. A creditor cannot, for his own payment, fel: the fubject impignorated, wihout applying to ina judge ordinary for a warrant to put it up to public fale or roup; and to this application the debtor ought to be made a party.

## Sect. XIV. Of Obligations by Wrord or Writ.

clxxiv.

Verbal agreement.

1. The appellation of qerbal may be applied to all obligations to the conflitution of which writing is not eflential, which includes both real and confenfual contrachs; but as thefe are explained under feparate titles, obligations by word, in the fenfe of this rubric, mult be rettricted, either to promifes, or to fuch verbal agreements as have no fpecial name to diftinguith them. Agreement implies the intervention of two diferent parties, who come under mutual obligations to one another. Where nothing is to be given or performed but on one part, it is properly called a promife; which, as it is gratuitous, does not require the acceptance of him to whom the promife is made. An offer, which muft be diftinguifhed from a promife, implies fomething to be done by the other party; and confequently is not binding on the offerer, till it be accepted, with its limitations or conditions, by him to whom the offer is made; after which, it becomes a proper agreement.
2. Writing muft neceffarily intersene in all obligations and bargains concerning heritable fubjects, though they thould be only temporary; as tacks, which, when they are verbal, laft but for one vear. In thefe, no rerbal agreement is binding, though it thould be referred to the oath of the party; for, till writing is adhibited, law gives both parties a right to reile, as from an unfinithed bargain; which is called locus pomitentio. lf, upon a verbal bargain of lands, part of the price thall be paid by him who was to purchafe, the interqcontus rei, the actual payment of money, creates a valid obligation, and gives a beginning to the contract of fale: and, in general, whercver matters are no longer entire, the right to refile feerns to be excluded. An agreement, whereby a real right is paffed from, or reftricted, called factun liberatorium, may be perfected تerbally; for freedom is favourable, and the purpofe of fuch agreement is rather to diffolve than to create an obligation. Writing is alfo effential to bargains made under condition that they thall be reduced into writing; for in fuch cales, it is pars contraflus, that, till writing be adhibited, both parties thall have liberty to withdraw. In the fame manner, verbal or nuncupative teftaments are rejected by our law; but verbal legacies are fuftained, where they do not exceed 1001. Scots.
3. Anciently, when writing was little ufed, deed,
wore executed by the party appending his feal to them Law in prelince of vituelles. For preventing frateds that Sectla might happen by appending fcals to fallie deeds, the Saiemni fubicription alfo of the granter was afterwards required, of writte and, if he could not write, that of a notary. As itobligati might be of dangerous confeçuences in give full force to the fubicripion of the parties by initia!s, which is more eafily counterfeited; our praclice, in order to $C_{1}-$ Atain fuch fubfcription, feems to reguice a proof, wot only that the granter ufe: to fubleribe in that way, but that de facio he had fubfribed the deed in quettion; at leaft, tuch proof is required, if the inttrumentary witneffes be ftill alive.
4. As a further check, it was afterwards provided, that all writings carrying any heritable right, and other deeds of importance, be fubfcribed by the principal parties, if they can fubfribe ; otherwife, by two notaries, before four witneffes feecially defigned. The lubfequent practice extended this requifite of the defignation of the witnefles to the cafe where the parties them. felves fubfcribed. Cultom has conftrued obligations for fums exceeding rool. Scots, to be obligations of importance. In a divifible obligation, ex. gr, for a fum of money, thongh exceeding sool, the fubfeription of one notary is fufficient, if the creditor rellricts his claim to 1001 : But in an obligation indivitible, e. g. for the performance of a fact, if it be not fubfribed in terms of the ftatute, it is void. When notaries thus atten a deed, the atteftation or docquelt muit Ipecially exprefs that the granter gave them a mandate to fign ; nor is it fufficient that this be mentioned in the body of the writing.
5. In every deed, the name of him who writes it, with his dwelling place, or other mark of diftinction, muft be inferted. The witnefles mutt both fubfcribe as witneffes, and their mames and defignations be inferted in the body of the deed. And all fubfcribing witnefles mult know the granter, and either lee him fubfcribe, or hear him acknowledge his fubfeription; otherwife tlicy are declared punifiable as acceffary to forgery. Deeds, decrees, and other fecurities, confifting of more than one fheet, may be written by way of book, in place of the former cuftom of pafting together the feveral fheets, and figning the joinings on the margin; provided each page be figned by the granter, and marked by its number, and the tefting claufe exprefs the number of pages.
6. Inftruments of feiinn are valid, if fubferibed by Solemniti one notary, before a reafonable number of witneffes; of notoris which is extended by practice to inftuments of refig- inftumet nation. Two witneffes are deemed a reafonable number to every deed that can be executed by one notary. It is not neceffary that the witnelfes to a notorial infrument or execution fee the notary or meffenger fign ; for they are called as wituefies to the tranfaction which is attefted, and not to the fubfeription of the perfon attelting.
7. A new requifite has been added to certain deeds fince the Union, for the benefit of the reveruse: They muft be executed on ftamped paper, or parchment, paying a certain duty to the crown. Thele duties muft alfo be paid before wrote upon, under a penalty; but they arc fo numerous and comp!ex, that it would be tedious, even if it fell under our plan, to enter into an enumeration of them. They will be found at
length in Swinton's Abridgement, eoce Stamps, to which the reader is referred. Certain judicial deeds, fuch as bail bonds, bonds of cautionry, in furpenfions, \&c. are exempted, and do not require flamps, as will be feen from the feveral acts referred to by the compiler of the above abridgement of the flatutes.
8. The granter's name and defigration are effential, not properly as folemnities, but becaule no writing can have effect without them. Bonds were, by our ancient practice, frequently evecuted without filling up the creditor's name ; and they paffed from hand to hand, like notes payable to the bearer: But as there nas no method for the creditor of a perfon poffeffed of thele to fecure them for his payment, all writings taken blank in the creditor's name are declared null, as covers to fraud ; with the exception of indorfations of bills of exchange.
9. Certain pristleged writings do not require the ordinary folemnities. 1. Holograph deeds (written by the granter himfelf) are effectual without witnefles. The date of no holograph writing, except a bill of exchange (fee next parag.), can be proved by the granter's own affertion, in prejudice either of his heir or his creditors, but mult be fupported by other adminicles. 2. Teftaments, if executed where men of fikill and bufinefs camnot be had, are valid though they thould not be quite formal: and let the fubject of a teflament be ever fo valuable, one notary figning for the teltator, before two witnelfes, is in practice futficient. Clergymen were frequently notaries before the Reformation; and, though they were afterwards prohibited to act as notaries, the cale of teftaments is excepted; fo that thefe are fupported by the atteftation of one minifter, with two witneffes. 3. Difcharges to tenants are fuftained without witnefles, from their prefumed rufficity, or ignorance in bufinefs. 4. Miffive letters in re mercatoria, commifions, and fitted accounts in the courfe of trade, and bills of exchange, though they are not holograph, are, from the favour of commerce, fuftained without the ordinary folemnities.
10. A bill of exchange is an obligation in the form of a mandate, whereby the drawer or mandate defires him to whom it is directed, to pay a certain fum, at the day and place therein mentioned, to a third party. Bills of exchange are drawn by a perfon in one country to his correfpondent in anotier; and they have that name, becaufe it is the exchange, or the value of money in one place compared with its value in another, that generally determines the precile extent of the fum contained in the draught. The creditor in the bill is fometimes called the poffefor, or porieur. As parties to bills are of different countries, queftions concerning them ought to be determined by the received cuftom of trading nations, unlefs where fpecial ftatute interpofes. For this reafon, bills of exchange, though their form admits not of witneffes, yet prove their own dates, in queftions either with the heir or creditors of the debtor; but this doctrine is not extended to inland bills payable to the drawer himfelf.

1r. A bill is valid, without the defignation either of the drawer or of the perfon to whom it is made payable: lt is enough, that the drawer's fubfcription appears to be truly his; and one's being poffeffor of a bill marks hin out to be the creditor if he bears the name given in the bill to the creditor: Nay, though

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the perfon drawn on fhould not be defigned, his acceptance prefumes that it was he whom the drawer had in his eye. Bills drawn blank, it the creditor's name, fall under the ftatutory nullity; for though indorfations of bills are excepted from it, bills thenfelves are not. Not only the perfon drawn upon muft fign his acceptance, but the drawer mult fign his draugh, before any obligation can be formed agaimil the accepter: Yet it is fufficient in prastice, that the drawer ligns before the bill be produced in judgenient ; though it hoould be after the death both of the creditor and accepter. A creditor in a bill may tranfmit it to another by indorfation, though the bill thould not bear to his order; by the fame rule that other rights are tranfiniinile by alfignation, though they do not bear to a/ficmees.
12. The drawer, by figning his draught, becomes Obligations, liable for the value to the creditor in the bill, in cafe the perfon drawn upon either docs not accept, or after acceptance does not pay; for he is prefumed to have received value from the creditor at giving him the draught, though it fhould not bear for value received: But, if the drawer was debtor to the creditor in the bill before the draught, the bill is prefumed to be given towards payment of the debt, unlefs it exprefsly bears for value. The perfon drawn upon, if he refufe to accept, while he has the drawer's money in his hands, is liable to him in damages. As a bill prefumes wilue from the creditor, indorfation prefumes value from the indorfee; who therefore, if he cannot obtain payment from the accepter, has recourfe againtt the indorfer, unlefs the bill be indorled in thefe words, without recourfe.
13. Payment of a bill, by the accepter, acquits both the drawer and him at the hands of the creditor: but it entitles the accepter, if he was not the drawer's debtor, to an action of recourfe againf him; and, if he was, to a ground of compenfation. Where the bill does not bear value in the hands of the perfon drawn upon, it is prefumed that he is not the drawer's debtor, and confequently he has recourfe againt the drawer, ex mandato.
14. Biills, when indorfed, are confidered as fo many bags of money delivered to the onerous indorfee; which therefore carry right to the contents. free of all burdens that do not appear on the bills themfelves. Hence, a receipt or difeharge, by the original creditor, if granted on a feparate paper, does not excmpt the accepter from fecond payment to the indorfee; hence, alfo, no ground of compenfation competent to the accepter againt the original creditor can be pleaded againt the indorfee: but, if the debtor thall orove, by the oath of the indorfee, either that the bill is indorfed to him for the indorier's own behoof, or that he paid not the full value for the indorfation, the indorfee is jutly confidered as but a name; and therefore all exceptions, receivable againft the original creditor, will be fuftained againlt him. A protefterl bill, after regilf ration, cannot be tranfmitted by indorfution, but by allignation.
15. Bills mult be negociated by the poffelfor, againf Negociathe perfon drawn upon, within a precile time, in order tion. to preierve reconefe againt the drawer. In bills payable fo maty days after fight, the creditor has a difcretionary power of fixing the payment fomewhat fooner or later, as his occafions flall require. Bills ra. ble on a day certain, need not be prefented for acceprance till the day of payinent, becaufe that day san

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neitier be protortyed not Bortenal by the time of acceptance. For the fane reafon, the acceptance of bills, payable on a precifeday, need not be dated : but, where a bill is drawn payable fo many days after fight, it muft ; becaule there the term of payment depends on the date of acceptance.
16. Though bills are, in flritt larr, due the very day on which they are made payable, and may therefore be protefted on the day thereafter; yet there are three days immediately following the day of payment, called liays of grace, within any of which the creditor may proteft the bill; but if he delay protelfing till the day after the laft day of grace, he lofes his recourfe. Where a bill is protefled, either from not acceptance or not payment, the dihonour mult be notified to the drawer or indorfer, within three pofts at fartheft. This itrictnefs of negociation is confined to fuch bills as may be protefted by the poffeffor upon the third day of grace: where, therefore, bills are indorfed after the days of grace are expired, the indorfee is left more at liberty, and does not lofe his recourfe, though he fhould not take a formal protef for not payment, if, within a reafonable time, he fhall give the indorfer notice of the accepter's refufing to pay. Not only does the poffefior, who neglects ftrict negociation, lofe his recourfe againit the drawer, where the perfon drasn upon becomes afterwrards bankrupt; but though he flould continue folvent: for he may in that cafe recover payment from the debtor, and fo is not to be indulged in an unneceffary procefs againft the drawer, which be has tacitly senounced by his negligence. Recourfe is preferved againf the drawer, though the bill fhould not be duly negociated, if the perfon drawn upon was not his debtor ; for there the drawer can qualify no prejudice by the negleat of diligence, and he ought not to have drarn on one who owed him nothing.
17. The privileges fuperadded to bills by ftatute are, that though, by their form, they can have no claufe of regiftration, yet, if duly protelted, they are regiltrable mithin fix montlhs after their date in cafe of not acceptance, or in fix months after the term of payment in the cafe of not payment ; which regiftration is made the foundation of funmary diligence, either againtt the drawer or indorfer in the cafe of not acceptance, or againf ti:e accepter in the cafe of not payment. This
anland bills, is extended to inland bills, i. e. bills both drawn and made payable in Scotland. After acceptance, fummary dilligence lies againll no other than the accepter; the drawer and indorfer mult be puzfued by an ordinary action. It is only the principal fum in the bill, and intereft, that can be charged for fummarily: the exchange, whell it is not included in the dranght, the reexchange incurred by fuffering the bill to be protefted and returned, and the expence of diligence, mull all be recovered by an ordinary action ; becaufe thele are not liquid debis, and fo muft be previounly conflituted.
18. Bills, when drawn payable at any coniderable diftance of time after date, are denied the privileges of bills: for bills are intended for currency, and not to lie 2s a fecurity in the creditor's hands. Bills are not valid which appear ex facie to be donations. No extrinfic Atipulation ought to be contained in a bill which deviates from the proper nature of bills: hence, a bill to which a penalty is adjected, or with a claufe of in. terell from the date is, null. Inland precepts drawn,
not for money the mediam of trade, but for fungiibles, are null, as wanting writer's name and witnefies. It is not an agreed point whether promifory notes, without writer and witnefifs, unle's holograph, are provative.
19. So flood the law of Scotland, in regard to bills and Lateral promiflory notes, presious to the flatute $12 \mathrm{Geo}. \mathrm{III}$.ations
By that flatute, however, the law of Scotland tha By that flatute, however, the law of Scotland has promifitu undergone very material alterations. They are de-notes. clared to have the fame privileges, and to prefcribe in fi. years after the term of payment. Bank notes and poit bills are excepted from this prefription : nor docs it run during the years of the creditor's minority. Inland bills and promiffory notes muft be protelted within the days of grace, to fecure recourfe; and the dithonour notified within 14 days after the protelt. Summary diligence may pafs not only againf the accepter, but likervife againf the drawer, and all the indorfees jointly and feverally; and at the inffance of any indorfee, though the bill was nut protefted in his neme, upou his producing a receipt or letter from the protefting indorfee. This act was in force only for feven years after I 5 th May 1772, and to the end of the then next feflion of parliament. But as it was found by experience that it had been of great advantage to Scotland, it was made perpetual by the late act $23 . \mathrm{Geo}$. III. To that it has now become a permanent part of the law of Scotland.
20. As for the folemnities effential to deeds figned in a foreign country, where they come to receive execution in Scotland, it is a general rule, that no law can be of ajthority beyond the dominions of the lawgiver. Hence, in ftrietnefs, no deed, though perfected accorl- Solemn ing to the law of the place where it is figned, can have effect in another country where different folemnities are required to a deed of that fort. But this rigour is fo country foftened ex: comitate, by the common confent of nations, that all perfonal obligations granted according to the law of that country where they are figned, are effectual everywhere; which obtains in obligations to convey heritage. Conseyances themfelses, however, of heritable fubjects mult be perfetted according to the law of the country where the heritage lies, and from which it cannot be removed.
21. A writing, while the granter keeps it under his Delires own power or his doer's, has no force; it becomes ob. anid des ligatory, only after it is delivered to the grantee him- deeds. felf, or found in the hands of a third perfon. As to which laft, the following rules are obferved. A deed found in the hands of one who is doer both for the granter and grantee, is prefumed to have been put in his hands as doer for the grantee. The prefumption is alfo for delivery, if the deed appears in the hancs of one who is a ftranger to both. Where a deed is depofited in the hands of a third perfon, the terms of depofitation may be proved by the cath of the depolitary, unlefs where they are reduced into writing. A deed appearing in the cuftody of the grantee himfelf is confidered as his abfolute right; informuch that the granter is not allowed to prove that it was granted in truft, otherwife than by a written declaration figned by the truftee, or by his oath.
22. The following deeds are effectual without deli- What is very. (1.) Writings containing a claufe difpenfing elfectu with the delivery; thefe are of the nature of revocable livers. deeds, treere the death of the granter is equivalent to

Law of delivery, becaufe after death cinere caa be no revocation. (2.) Deeds in favour of children, even natural ones; for parents are the proper cultudiars or keepers of their children's writings. From a fimilar reafoil, poltnuptial fettlements by the hatband to the wife need nodelivery. (3). Rights which are not to take effed till the granter's death, or even-where he relerves an interelt to himfelf during his life; for it is prefumed he holds the cultody of thele, merely to focure to himfelf fuch referved intereft. (4.) Deeds which the granter lay under an antecedent natural obligation to execute, e. g. rights granied to a cautioner for his relief. (5.) Mutual obligations, e. g. contracts for every fuch deed, the moment it is executed, is a common evident to all the parties contractors. Laftly, The publication of a writing by regiffration is equivalent to delivery.

## Sect. XV. Of Obligazions and Contrafts arifing from Confent, and of accefory Obligations.

I. Contracts confenfual (i.e. which might, by the Roman law, be perfected by the fole confent, without the intervention either of things or of writing,) are fale, permutation, location, fociely, and mandate. Where the fubject of any of thefe contracts is heritable, writing is neceffary.
2. Sale is a contract, by which one becomes obliged to give fomething to another, in confideration of a certain price in current money to be paid for it. Things confifting merely in hope, may be the fubject of this contract, as the draught of a net. Commodities, where their importation or ufe is abfolutely prohibited, cannot be the fubject of fale; and even in run goods, no action lies againt the vender for the delivery, if the buyer knew the goods were run. So far indeed has this principle been carried, and fo anxious have our judges been to put a flop to the practice of fmuggling, that in different cafes which have occurred of action being brought at the diftance of a foreign merchant againft perfons refident in Scotland for payment of goods which had been fmuggled, a diltinction has been made betwist the cafe of the foreign merchant being or not being a native of Scotland. Where the foreign merchant was a native of Scotland, it has been prefumed that he was acquainted with the revenue law of the country, and that he was in a manner verfans in re illicita; and therefore action has been denied for recovery of the price of fuch goods: but where, on the other hand, the foreign merchant was not a native of Scoiland, nowife amenable to, and even prefumed ignorant of its laws, he has with juffice been allowed action for the price of fuch goods, uniefs it were fhown that he had in fact been particeps criminis, by aiding the finuggle. The fame principle has regulated the decifions in the courts of England in cafes of a fimilar nature, which have within thefe few years come before them.
3. Though this contract may be perfected before delivery of the fubject, the property temains till then with the vender: (See $\mathbb{N}^{0}$ clxii. 9.) Yet till delivery, the hazard of its deterioration fal!s on the purchaler, becaufe he has all the profits arifing from it after the fale. On the other band, the fubject itfelf perifies to the verder: (1.) If it fhould perilli through lis fault, or after his undue delay to deliver it. (2.) If a fubject is foid as 2 fungible, and not as an individual, or corpus, c. g. a
quantity of farm-nheat, fold nitiout ditinzuilling the Law c: parcel to be deliveed from the rell of the farm. Scutaiate. (3.) The periculum lies on thie vender till delivery, if he be obliged by a feciat article in the contract to deliver the fibject at a cortain place.
4. Loration is that comtract where a hire is Aipu Locatica. lated for the ufe of things, or for the fervice of perfous. He who lets his work or the ufe of his property to hire, is the locator or leffor; and the other, the conductor or leffice. In the lucation of things, the leflor is obliged to deliver the fuljeet, fitted to the ule it was let for; and the leffee mult preferve it carefully, put it to $n 10$ other life, and, after that is over, reltore it, Where a workman or artificer lets his labour, and if the work is either not performed according to contract, or it it be infulficient, cren from mere unfkilfulacts, he is liable to his employer ind danages, for he ought not, as an artificer, to have undertaken a work to which he was not equal. A fervant bired for a certain term is entitled to his full wages, though from licknefs or other accident he flould be difabled for a part of his time: but if he die before the tern, his wages are only due for the time he actually ferved. If a maller dies, or without good reafon turns off, before the term, a fervant who eats in his houfe, the fervant is entitled to his full wages, and to his maintenance till that term; and, on the other part, a fervant who without ground deferts his fervice, forfeits his wages and maintenance, and is liable to his mafter in damages.
5. Suciety or coparinerfhip is a contract, whereby the Society. feveral partners agree conceraing the communication of lufs and gain arifing from the fubject of the contract. It is formed by the reciprocal choice which the partners make one of another; and fo is not conflituted in the cafe of co-heirs, or of feveral legatees in the fame fubjecी. A copartnerfhip may be fo conflituted, that one of the partners fhall, either from his fole right of property in the fubject, or from his fuperior kill, be entitled to a certain thare of the profits, without being fubjefted to any part of the lofs; but a fociety, where one partner is to bear a certain proportion of lofs, without being entitled to any fhare of the profits, called by the Romans focietas leonina, is jufly reprobated. All the partners are entitled to fhares of profit and lofs proportioned to their feveral flocks where it is not otherwife covenanted.
6. As partners are united, from a delectus perfonce, in a kind of brotherhood, no partner can, without a fpecial power contained in the contract, transfer any part of his fhare to another. All the partners are bound in folidum by the obligation of any one of them, if he fubicribe by the firf or focial name of the company; unlefs it be a deed that falls not under the common courfe of adminifitration. The company effects are the common property of the fociety fubjected to its debts; fo that no partner can claim a divifion chercof, even after the fociety is diffolved, till they are paid; and, confequently, no creditor of a partner can, by diligence, carry to himfelf the property of any part of the commun flock, in prejudice of a company cseditor: but he may, by arreftment, fecure his debtor's fhare in the company's hands, to be made forticoming to hias at the clofe of the copartncrllif, in fo far as it is not exhau?ed by the company debts.
7. Society being founded in the matual confdence $4 \mathrm{P}_{2}$ among

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aranar the focii, is diffulved, not oniy by the renunciation, but by the deatb of any one of the.a, if it be not otherwife fpecially covenated. A patmer winj remonnces upon untair viens, or at a critical time, when his uithdrawing may be fatal to the fociety, loofes his prtsers from all their engagements to him, while he is batud to them for all the profis he thall make by his withdrawing, and for the lofs axifing thereby to the company. Nut only natural, but civil death, e.g. arifing from a fentence inflicting capital punithment, makes one incapable to perform the duties of a partner, and confequently difiolves the fociety. In both cafes of death and renunciation, the remaining partners may continue the copartnemhip, either exprefly, by entering into a new contract ; or tacitly, by carrying on their trade as formerly. Public trading companies are now every day conftituted, with rules very different from thofe which either obtained in the Roman larr, or at this day obtain in private focieties. The porprictors or partners in thefe, though they may tranffer their thare, cannot renounce; nor does their death diffolve the compary, but the fhares of the deceafed defcenu's to his reprelentative.
8. A joint trade is not a copartnerbip, but a mo-

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friandate. mentary contract, where two or more perfons agree to contribute a fum, to be employed in a particular courfe of trade, the produce whereof is to be divided anaong the adventurers; according to their feveral thares, after the voyage is finithed. If, in a joint trade, that partner who is intrufted with the money for purchafing the goods, Chould, in place of paying them in calh, buy them upon credit, the furnither who followed his faith aloue in the fale, has no recourfe againtt the other adventurers, he can only recover from them what of the buy cr's dhare is yet in their hands. Where any one of the adventuress in a joint trade becomes bankrupt, the others are preferable to his creditors, upon the common flock, as long as it continues undivided, for their relief of all the engagements entered into by them on account of the adventure.
9. Mandate is a contra\&. by which one employs another to manage any buinefs for him; and by the Roman law, it mull have been gratuitous. It may be conllituted tacitly, by one's fuffering another to act in a certain branch of his affairs, for a tract of time together, sithout challenge. The mandatory is at liberty not to accent of the mandate; and, as his powers are folely founded in the mandant's commilfion, he muft, if he undertake, it, Itrictly adhere to the dire Tions given him: Nor is it a good defence, that the method be followed was more rational; for in that his employer was the proper judge. Where no \{pecial rules are prefcribed, the mandatory, if he acts prudently, is fecure, whatever the fuccefs may be; and he can fue for the recovery of all the expences reafonably difburfed by him in the execution of his office.
10. Mandate may be general, containing a power of adminiftering the mandant's whole alfairs; but no mandate implies a power of difpofing gratuitoully of the conftituent's property, nor even of felling his heritage for an adequate price; but a general mandatory mav fell fuch of the moveables as muft otherwife perin. No mandatory can, without fpecial powers, tranfact doubeful clams belonging to his conilituent, or refer them to arbiters.
11. Mandates expire, (1.) By the rcyocation of the employer, though only tacit, as if he fhould name an other mandatory for the fame buinefs. (2.) By the renunciation of the mandatory; even after he has executed a part uí his commillion, if his ollice be gratuitous. (3.) By the death either of the mandant or mandatory: But if matters are not eutire, the mandate continues in force, notwithfianding fuch revocation, renunciation, or death. Procuratories of refignation and precepts of feifin are made out in the form of mandates; but, becaufe they are granted for the fole bencfit of the mandatory, all of them, excepting precepts of clare con $/$ lat, are declared (by act 1693) to continue after the death either of the granter or grantee. Deeds which contain a claufe or mandate for regiffration, are for the fame reafon made regilfrable after the death of either (by act 1693 and 1696 .)
12. The favour of commerce has introduced a tacit mandate, by which mafters of thips are empowered to contract in name of their exercitors or employers, for repairs, fhip-provifons, and whatever elfe may be neceflary for the thip or crew; fo as to oblige not themfelves only, but their employers. Whoever has the actual charge of the N.ip is deemed the mafter, though he flould have no commiffion from the exercitors, or fhould be fubstituted by the matier in the direction of the flip without their knowledge. Evercitors are liable, whether the mafter has paid his own money to a merchant for necefiaries, or has borrowed money to purchafe them. The furnifher or lender mult prove that the fhip needed repairs, provifion, \&c. to fuch an extent ; but he is under no necelfity to prove the application of the money or materials to the thip's ufe. If there are feveral exercitors, they are liable finguli in folidum. In the fame manner the undertaker of any branch of trade, manufacture, or other land negotiation is bound by the contracts of the inflitors whom he fets over it, in fo far as relates to the fubject of the prapofitura.
13. Contracts and obligations, in themfelves imper- Homolog fect, receive frength by the contractor or his heirs do- tion. ing any aet thereafter which imports an approbation of them, and confequently fupplies the want of an original legal confent. This is called homologntion; and it takes place even in deeds intrinfically null, whether the nullity arifes from the want of ftatutory folemnities, or from the incapacity of the granter. It cannot be inferred, (1.) By the act of a perfon who was not in the knowledge of the original deed; for one cannot approve what he is ignorant of. (2.) Homologation has no place where the act or deed, which is pleaded as fuch, can be afcribed to any other caufe; for an intention to come under an obligation is not prefurmed.
14. शuaf-contracts are formed without explicit con-Quafi-con fent, by one of the parties doing fomething which by its ${ }^{\text {tracts }}$ nature either obliges him to the other party, or the other party to him. Under this clafs may be reckored tutory, \&c, the entry of an heir, negotiorum gefio, indebiti folutio. communion of goods between two or more common proprietors, and mercium jactus levandie navis, coufa. Negotiorum gefio forms thofe obligations which arife from the management of a perfon's affairs, in his abfence, by another, without an mandate. As fuch manager acts without authority from the proprietor, he ought to be liable in exact diligence, uulefs he has

Law of from friendinip interpofed in aftairs which admitted no delay : and he is accountable for his intromillions with interelt. On the other part, be is ensitled to the recovery of his necellary dibburfements on the fubject, and to be relieved of the obligations in which he may have bound himfelf in conferquence of the management.
15. Indebiti folutio, or the payment to one of what is rot due to him, if made through any mitake, either of fact, or cven of law, founds him who made the payment in an action againft the receiver for repay. ment (condritio ind.biti.) This actiun does not lie, (1.) If the fum paid was due ex equirate, or by a natural obligation: for the obligation to reliore is founded folely in equity. (2.) If he irho made the payment knew that nothing was due: for qui confulto dat quod non debebnt, preffumiter donare.
16. Where tivo or more perfons become common proprietors of the fame fuoject, either by legacy, gift, or purchafe, without the view of copartnerliip, an obligation is thereby created among the proprietors to communicate the profit and lofe arifing from the fubject, while it remains common: And the fubject may be divided at the fuit of any laving interett. This divifion, where the quettion is among the common proprietors, is according to the slaluation of their refpective properties: But where the queftion is between the proprietors and thofe having fervitudes upon the property, the fuperfice is only divided, without prejudice to the properiy. Commonties belonging to the king, or to royal boroughs, are not divifible. Lands lying runrig, and belonging to different proprietors, may be divided, with the exception of borough and incorporated acres; the execution of which is committed to the judge ordinary, or juftices of the peace.
17. The throwing of goods overboard, for lightening a his in a florm, creates an obligation, whereby the owners of the thip and goods faved are obliged to contribute for the relief of thofe whofe goods were thrown overboard, that fo all may bear a proportional lofs of the goods ejected for the common fafety. In this contribution, the nlip's provilions fuffer no eltimation. A mafter who has cut his mafl, or parted with his anchor, to fave the flip. is entitled to this relief: but if he has loft them by the Itorm, the lofs falls only on the flip and freight. If the ejection does not fave the fhip, the goods preferved from hipiwreck are not liable in contribution. Ejection may be lawfully made, if the malter and a third part of the mariners judge that meafure neceffary, though the owner of the goods fhould oppofe it : and the goods ejezted are to be valued at the price that goods of the fame fort which are fived thall be afterwards fold for.
-18. There are certain obligations which cannot fubfift hy themfelvec, but are acceffions to, or make a part of, other obligations. Of this fort are fidejulion, and the obligation to pay interff. Cautionry, or fidejuffon, is that obligation by which one becomes engaged as fecurity for another, that he flall either pay a fun, or perform a deed.
19. A cautioner for a fum of money may be bound, either fimply as cautioner for the principal debtor, or conjunctly and feverally for and with the principal debtor. The firt has, by our culone, the benficium ordinis, or of difcuffion; by whi h he creditor is obliged to difcufs the proper debtor, befo:e the can in-
fift for payment againft the cautioner. Where one is bound as full debtor with and for the principal, or conjunctly and fcverally with him, the two obligants are bound equally in the fame obligation, each in folidum ; and confequently, the cautioner, though he is but an accelfory, may be fued for the whole, without either d:fcuffing or even citing the principal debtor. Cantioners for performarice of facts by another, or for the faithtul difcharge of an office (e. g. for factors, tutors, \& c.), cannot by the nature of their engagement ')e bound conjunctly and feverally with the principal obligant, becaufe the fact to which the principal is bound cannot poffibly be performed by any other. In fuch engagements, therefore, the failure mult be provioully conflituted againft the proper debtor, before action can be brought againt the cautioner for making up the lofs of the party fuffering.
20. The cautioner, who binds himfe'f at the delire of the principal debtor, has an actio mandati or of relief againt him, for recovering the principal and intereft paid by himfelf to the creditor, and for necefliary damages: which action lies de jure, though the creditor fhould not affign to him on payment. As relief againf the debtor is implied in fidejuffory obligations, the cautioner, where fuch relief is cut off, is no longer bound : hence the defence of prefription frees the cautioner, as well as the principal debtor.
21. But (1.) Where the cautionry is interpofed to an obligation merely natural, the relief is reltricted to the fums that have really turned to the debtor's profit. (2.) A cautioner who pays without citing the debtor, lofes his relief, in fo far as the deb:or had a relevant defence againt the debt, in whole or in part. Relief is not competent to the cautioner, till he erther pays the debt, or is diftrelfed for it; except, Ift, Where the debtor is exprefly bound to deliver to the cautioner his obligation cancelled, arainll a day certain, and has failed; or, 2dly, Where the debtor is vergens ad inopiant ; in which cafe the cantioner may, by proper diligence, fecure the debtor's funds for his own relief, even before payment or dilitrefs.
22. A right of relief is competent de jure to the cautioner who pays, again! his co-cautioners, valefs where the cautioner appears to have renounced it. Is confequence of this implied relief, a creditor, if he fhall grant a difcharge to any one of the cautioners, muft, in demanding the debt from the others, deduct that part as to which he has cut off their relief by that difcharge. Where the principal debtor, in a bond in which a cautioner is bound, grants hond of corroboration with a new cautioncr, botls cautioncrs, as they intervene for the fame debt, and at the denire of the fame debtor, have a mutual relief againtt each other; but where the cautioner in the firtt bond ligns as a principal obligant in the corroboration, the cautioner in the new bond, it would feem, would be c:1titled to a total relief agaimint the firlt cautioner. At fame tirae, the decifons of the court of fe.fion are not perfectly at one upon this branch of the doEtrine of cautionry.
23. Cautionry is alfo judicial, as in a furpenfion. It suficial is fulficient to loofe the cautioner, that when he became vautioner, boid, the fuffender had g oo 1 reafon to fufpend, e. g. if the charger had at that periol no title, or had not

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penifon Mrould be aftervards taken off. In all mariime caufes, where the partics are frequently foreignere, the defender mult give caution judicio fifi et judtcatum Fo'vi: fuch cautioner gets free by the death of the deferider before fentence; but he contimues bound, though the caufe thould be carried from the admiral to the court of felfion. This fort of caution is only to be exaced in crules Arichly maritime.
24. It happens frequently, that a creditor takes two or more obligants bound to him, all as principal debiors, without fidejuffion. Where they are fo bound, for the performance of facts that are in themfelves indiviable, they are liable each for the whole or finguli in folidum. But, if the obligation be for a fum of money, they are only liable pro rata; unlefs, (1.) Where they are in exprefs words bound conjunctly and feverally; or, (2.) In the cafe of bills or promiffory notes. One of leveral obligants of this fort, who pays the whole debt, or fulfils the obligation, is entitled to a proportional relief againft the reft; in fuch manner, that the lofs muft, in every cale, fall equally
Intereft of money. upon all the folvent obligants.
25. Obligations for fums of money are frequently accompanied with an obligation for the annualrent or intereft thereof. Intereft (ufura) is the profit due by the debtor, of a fum of money to the creditor for the ufe of it. The canon law confidered the taking of intereft as unlawful: the law of Mofes allowed it to be exacted from flrangers: and all the reformed nations of Europe have found it neceflary, after the example of the Romans, to authorize it at certain rates fixd by flatute. Soon after the Reformation, our legal intereft was fixed at the rate of 10 per cent. per annum ; from which time it had been gradually redu. ced, till at laft, by 12 Ann. Stat. 2. c. 16. it was brought to five per cent. and has continued at that rate ever fince.
26. Intereft is due, either by law or by paction. It is due by law, either from the force of fatute, under which may be included acts of federunt, or from the nature of the tranfaction. Bills of exchange, and inland bills, though they fhould not be prostefted, carry interelt from their date in cafe of not acceptance; or from the day of their falling due, in cafe of acceptance and not payment. Where a bill is accepted, which bears no term of payment, or which is payable on demand, no intereft is due till demand be made of the fum, the legal roucher of which is a notorial proteft. Intereft is due by a debtor after derunciation, for all the furns contained in the diligence, even for that part which is made up of interell. Sums paid by cautioners on diftrefs carry interef, not only as to the principal fum in the obligation, but as to the interelt paid by the cautioner. Factors named by the court of feffion are liable for intereft, by a fpecial act of federunt ; fee $\mathrm{N}^{\circ}$ clexii. 11.
27. It arifes ex legge, or from the nature of the tranfaction, that a purchafer in a fale is liable in interefl for the price of the lands bought from the term $r$ f his eniry, though the price thould be arrefted in his hands, or though the feller fhould not be able to deliver to him a fufficient progrefs or title to the lands; for no purchafer can in equity enjoy the fruits of ti:c lands, while at the fame time he retains the interefl of the price: but lawful confignation of the
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price made by a purchafer, upon the refufal of the Law of perfon's having right to receive it, flops the currency of interelt. Where one intermeddles with money belonging to another which carries intereft, he ought to reftore it cum onmi obventione et caufa; and is therefore liable in the intereft of it, as being truly an accefiory of the fubject itfelf. It is alfo from the nature of the tranfaction, that intereft is in certain cafes allowed to merchants or others in name of damages.
28. Intereft is due by expre/s paction, where there is a claufe in a bond or obligation, by which money is made to carry intereft. An obligation is not lawful, where it is agreed on, that the yearly intereft of the fum lent, if it thould not be paid punctually as it falls due, ihall be accumulated into a principal fum bearing interelt; but an obligation may be lawfully granted, not only for the furn truly lent, but for the intereft to the day at which the obligation is made payable, whereby the intermediate interet is accumulated into a principal fum from the term of payment. Intereft may be alfo due by implied paction: Thus where the intereft upon a debt is by a letter promifed for time paft, fuch promife implies a paction for intereft as long as the debt remains unpaid; thus alfo the ufe of payment of intereft prefumes a paction, and when interef is expreffed for one term, it is prefumed to be bargained for till payment.
29. The fubject matter of all obligations confifts ei-General ther of things or of facts. Things exempted fromproperties commerce cannot be the fubject of obligation. (See of obliga $N^{0}$ clxii. 2.) One cannot be obliged to the performance of a fact naturally impolible; nor of a fact in itfelf immoral, for that is alfo in the judgement of law impoffible. Since impoffible obligations are null, no penalty or damage can be incurred for non-performance: but it is otherwife, if the fact be in itfelf puffible, though not in the debtor's power; in which cafe the rule obtains, locusn facti imprafabilis fubit damnum et intereffe.
30. An obligation, to which a condition is objected, either naturally or morally impoffible, is in the general cafe null; for the parties are prefumed not to have been ferious. But fuch obligation is valid, and the condition thereof held pro non foripla, (1.) In teftaments: (2.) In obligations, to the performance of which the granter lies under a natural tie, as in bonds of provifion to a child. Where an obligation is granted under a condition, lawful but unfavourable, e. g. that the creditor hall not marry without the confent of certain friends, no more weight is given to the condition than the judge thinks reafonable. A condition, which is in fome degree in the power of of the creditor himfelf, is held as fulfilled, if he has done all he could to fulfil it. Implement or performance cannot be demanded in a mutual contract, by that party who himfelf declines or cannot fulfil the counterpart.
31. Donation, fo long as the fubject is not deliver-Donation. ed to the conee, may be juftly ranked among obligations; and it is that obligation which arifes from the mere goud will and liberality of the granter. Donations imply no warrandice, but from the future facts of the donor. They are hardly revocable by our law for ingratioude, though it fhould be of the grofleft hind: thofe betwixt man and wife are revocable by

Law of the dono:, even afier the dcath of the donee; but remuneratory grants, not being truly donations, cannot be forevoked. 'Ihat fpecial fort of donation, which is conllituted verbally, is called a promile. The Ra man law entitled all donors to the bencficium compelentie, in virtue of which they might retain fuch part of the donation as was necelary for their own fubfift ence. Our law alloss this benefit to fathers, with refpect to the provifions granted to their children; and to grandfathers, which is a natural confequence of children's obligation to aliment their indigent parents; but to no collateral relation, not even to brother:
32. Donations made in contemplation of death, or mortis caufa, are of the nature of legacies, and like thern revocable: confequently, not being effectual in the granter's life, they cannot compete with any of his creditors; not even with thofe whofe debts were contracted after the donation. They are underilood to be given from a perfonal regard to the donce, and therefore fall by his predeceafe. No deed, after delivery, is to be prefumed a donatio mortis caufa; for revocation is excluded by delivery.
33. Deeds are not prefuned, in dubia, to be donations. Hence, a deed by a debtor to his creditor, if donation be not exprefled, is prefumed to be granted in fecurity or fatisfacion of the debt; but bonds of provilion to children are, from the pretumption of paternal affection, conltrued to be intended as an additional patrimony; yet a tocher, given to a daughter in her marriage contract, is prefumed to be in fatisfaction of all former bonds and debts; becaule marriage contracts ufually contain the whole provifions in favour of the bride. One who aliments a perfon that is come of age, without an expre's paction for board, is prefumed to have entertained him as a friend, unlefs in the cafe of thofe who earn their living by the entertainment or board of Atrangers. But alimony given to minors, who cannot bargain for themfelves, is not accounted a donation; except either where it is prefumed from the near relation of the perfon alimenting. that it was given ex pictate; or where the minor had a father or curators, with whom a bargain might have been made.

## SEct. Xvi. Of the Difolution or Extingtion of Obligations.

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1. Obligations may be diflolved by performance, or implement, cunfent, compenfation, nosation, and confufion. (1.) By fpecifical performance: thus, an obligation for a fum of money $i$, extinguilhed by payment. The creditor is not obliged to accept of payment by parts, unlefs where the fum is payable by different divifions. If a debtor in two or more feparate bonds to the fame creditor, made an indefinite payment, without afcribing it at the time to any one of the obligations, the payment is applied, sh, To interef, or to fums not bearing interef. 2dly, To the fums that are leaf fecured, if the debtor thereby incurs no rigorous penalty. But, 3 dly, If this application be penal on the debtor, e. g. by fuffering the legal of an adjudication to expire, the payment will be applied fo as to fave the debror from that forfeiture. Where one of the debts is fecured by a cautioner, the other not, the appli-
cation is to be fo made, coceeris paribus, that both idwni creditor and cautioner may have equal jultice done to $\underbrace{\text { Scutland. }}$ the:u.
2. Payment made loy the debtor upon a mitake in fact, to one whom he believed, upon probable grounds, to have the right of recciving payment, extilg uilbes the obligation. But payment made to one, to, whom the law denies the power of receiving it, has not this effect; as if a debtor, feized by letters of caption, hhould make payment to the meffenger; for ignorantia juris neminem excufat. In all debts, the debtor, if he be not interpelled, may fafely pay before the term, except in tack duties or feu duties; the payment whereof, before the terms at which they are made pavable, is conltrued to be collufive, in a queftion with a creditor of the landlord or fuperior. Payment is in dubio prefumed, by the voucher of the debt being in the hands of the debtor; chirographum, apud debitorenn repertum, praflunitur folutum.
3. Obligations are extinguillable by the conjent of Ry confint. the creditor, who, without full implement, or even any implement, may renounce the right conllituted in his own favour. Though a difcharge or acquittance granted by one whom the debtor bona fide touk for the creditor, but who was not, extinguilhes the obiigatiun, if the fatisfaction made by the debtor was real ; yet where it is inaginary, the difcharge will not fcreen him from paying to the true creditor the debt for which he had made no prior fatisfactiun. In all debts which are conftituted by writing, the extinction, whether it be by fpecifical performance or bare conlent, muft be proved, either by the oath of the creditor, or by a difcharge in writing; and the fame folemnities which law requires in the obligation, are neceflary in the difcharge: but, whore payment is made, not by the debtor himfelf, but by the creditor's intromilion with the rents of the debtor's eflate, or by delivery to him of goods in name of the debtor, fuch delivery or intromilfion, being fafti, may be proved hy witneffes, though the debt fhould have been not oaly conntituted by writing, but made real on the debtor's lands by adjudication.
4. A difcharge, though it fhould be general, of all that the granter can demand, exten ls not to debts of an uncommon kind, which are not prefumed to have been under the granter's eye. 'This doctrine applies alfo to general aliguations. In annual payments, as of rents, feu-duties, intereft, \&c. three confecutive difcharges by the creditor, of the yearly or termly duties, prefume the payment of all precedings. Two difcharges by the anceltor, and the third by the heir, do no: infer this prefumption, if the heir was ignorant of the anceltor's dilcharges. And difcharges by ant adminillator, as a factor, tutor, \&ec. prefume only the payment of all preceding duties incurred during his adminifration.' 'This prelumption ariles from repeating the difeharges thrice fucceflively; and fo dues not hold in the cafe of tww difcharges, though they fhould include the duties of three or more terms.
5. Where the fame perfon is both creditor and By compeas debtor to another, the mutual obligations, if they are fation. for equal fums, are extinguihed by compenfation; if for unequal, Aill the loffer obligation is exinguilhed, and the greater diminifhed, as far as the concourfe of debit and credit gocs. 'To found compenfa-
tion, (1.) Each of the parties muf be debtor and creditor at the fame time. (2.) Each of them muit be debtor and creditor iis his own right. (3.) 'The mutual debts muft be of the fame quality: hence, a fum of moizey cannot be compenfated with a quantity of coms; becaufe, till the prices are fixed, at which the corns are to be converted into money, the two debts are incommenfurable. Laftly, Compenfation cannot be admitted, where the mutual debts are not clearly afcertained, cither by a written obligation, the fentence of a judge, or the oath of the party. Where this requires but a fhort difculfion, fentence for the puifuer is delayed for fome time, ex requitate, that the defender may make good his ground of comfenfation. Wherc a debt for fungibles is afcertained i:n money by the fentence of a judge, the compenfation can have no effect farther back than the liquidation; becaufe, before fentence, the debts were incommenfurable: but, where a debt for a fum of money is, in the courfe of a fuit, connituted by the oath of the deb:or, the compenfation, after it is admitted by the judge, operates retro, in fo far as concerns the currency of intereft, to the time when, by the parties acknowledgement, the debt became due: for, in this cafe, the debtor's eath is not what creates the debt, or makes it linquid: it only declares that fuch a liquid furn was tru! y due before. Compenfation cannot be offered after decree, either by way of fuepenion or reduction; unlefs it has been formerly pleaded, and unjuitly repelled. Decrees in ablence are excepted.

By nova-
tion.
6. The right of retention, which bears a near refemblance to compenfation, is chiefly competent, where the mutual debis, not being liquid, cannot be the ground of compenfation; and it is fometimes admitted ex cequitate in liquid debts, where compenfation is excluded by ftatute : thus, though compenfation cannot be pleaded after decree, either againft a creditor or his alfignee; yet, if the original creditor fhould become bankrupt, the debtor, even after decree, may retain againft the affignee, till he gives fecurity for latisfying the debtor's claim againft the cedent. This right is freçuently founded in the expence difburfed on work employed on the fubject retained, and fo asifes from the mutual obligations incumbent on the par. ties. It has never been difputed that retention of goods was competent, until payment or fatisfaction of the debt incurred in relation to thefe goods; but it was found, by the court of feffion, in a cafe which was very lately before them, that goods could not be retained by a manufacturer until payment of a prior debt; the debt incurred upon the goods in his lands being offered; and although the debror had bccome bankrupt, and the manufacturer mult otherwife rank as a common creditor for his prior debt. But retention may be fuftained, though the delo due to him who claims it does not arife from the nature of the obligation by which he is debtor: thus, a factor on a land effate may retain the fums levied by him in confequence of his factory, not only till he be paid of the diburfements made on occafion of fuch eftate, but alfo till he be difcharged from the feparate engagements be may have entered into on his conftituent's account.
7. Obligations are dificlued by novation, whereby one obligation is changed into another, withont chan-
ging either the debtor or creditor. The firf obligation being thereby extinguifhed, the cautioners in it are loofed, and all its confequences difcharged ; fo that the deb:or remains bound only by the laft. As the creditor to whom a right is once conftituted, ought not to lofe it by implication, novation is not cafily prefumed, and the new obligation is confrued to be merely corroborative of the old; but, where the fecond obligation exprefsly bears to be infatisfaction of the firlt, thefe words tio mult necellarily be explained into nosation. Where the creditor accepts of a new debtor, in place of the former who is difcharged, this metbod of extinction is called delegation.
8. Obligations are extinguifhed confu/ione, where the By confu debit and credit meet in the fame perion, either by fuc- fion. ceffion or fingular title, e. g. when the debtor fucceeds to the creditor, or the creditor to the debtor, or a llranger to both; for one cannot be debtor to himnfelf. If the fucceftion, from which the confufio arifes, happens afterwards to be divided, fo as the debtor and creditor come again to be different perfons; the confulio does not produce an extinction, but only a temporary fufpenfion, of the debt.

## Sect. XVII, Of Alfignations.

 of feifin; but thofe which either require no leifin, or on which feifin has not actually followed, are tranfmiffible by fimple ofignation. He who grants the dent, a retroceffon. Certain rights are, from the ufes to which they are deftined, incapable of tranfmiffion, perfon invelfed in them, without fecial powers given to him; as tacks, reverfions: the tranfmition of a which are fo proper to the wife, that a general affignabelong to her at her deceafe, does not comprehend them. A liferent right is, by its nature, incapable ofconveyance, that in a competition between two affignations, the laft, if firlt intimated, is preferred.I
peniron, of the debt.

1. Heritable rights, when they are clothed with infeftment, are tranfmitted by difpofition, which is a writing containiag procuratory of refignation and precept affignation is called the cedent; and he who receives it, the afignee or celfionary: if the affignee conveys his right to a third perfon, the deed of conveyance is called a tarfaticiz; and if he affigns it back to the ceas alimentary rights : others cannot be afigned by the third fort, is not prefumed to be intended, without an expretis conveyance; as of paraphernal goods, tion, by her to her hubband, of all that did or Mould a proper tranfmiffion; but its profits may be affigned while it fubfilts.
2. Affignations maft not only be delivered to the Intimatio: affignee, but intimated by him to the debtor. Intima- of affigna. tions are confidered as fo neceffary for completing the tions.
3. Though, regularly, intimation to the debtor is What not made by an inftrument, taken in the hands of a notary, fication is by the affignee or his procurator; yet the law admits equivalen equipollencies, where the notice of the affignment given tion. to the debtor is equally ftrong. Thus, a charge upon letters of borning at the affimee's inflance, or a fuit brought by him againtt the -. stor, fupplies the want of intimation; thefe being judicial acts, which expofe the conveyance to the eyes both of the judge and of the debtor ; or the debior's promife of payment by writing to the affignee, becaufe that is in effect a cor-
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Lav of woboting of the original debt. The aflignce's poffeltion of the right, by entering into paymant of the rents or interelt, is allo equal to an intimation; for it imports, not only notice to the debtor, but his actual compliance: but the debtor's private knowledge of the affignment is not fuftained as intimation.
4. Certain conveyances need no intimation. (1.) Indorfations of bills of exchange; for thefe are not to be fettered with forms, introduced by the laws of particu- lar fates. (2) Bank notes are fully conveyed by the bare delivery of them; for as they are payable to the bearer, their property mult pafs with their polieffion. (3.) Adjudication, which is a judicial conveyance, and marriage, which is a legal one, carry the full right of the fubjects thereby conveyed, without intimation: neverthelefs, as there is nothing in thefe conveyances which can of themfelves put the debtor ir mala fide, he is therefore in tuto to pay to the wife, or to the original creditor in the debt adjudged, till the marriage or adjudication be notified to him. Affignments of moveable fubjects, though they be intimated, if they are made retenta polfelrone, (the cedent retaining the poffeffion), cannot hurt the cedent's creditors; for fuch rights are prefumed, in all queftions with creditors, to be collufive, and granted in truft for the cedent himfelf.
5. An affignation carries to the affignee the whole right of the fubject conveyed, as it was in the cedent; and confequently he may ufe diligence, either in his redent's name while he is alive, or in his own.
6. After an aflignation is intimated, the debtor cannot prove a payment, or compenfation, by the oath of the cedent, who has no longer any intereft in the debt; unlefs the matter bas been made litigious by an action commenced prior to the intimation : but the debtor may refer to the oath of the affiguee, who is in the right of the debt, that the affignment was gratuitous, or in truff for the cedent: either of which being proved, the oath of the cedent will affect the affignee. If the affignation be in part onerous, and in part gratuitous, the cedent's oath is good againft the affignee, only in fo far as his right is gratuitous. All defences competent againt the original creditor in a moveable debt, which can be proved otherwife than by his oath, continue relevant againft cven an onerous affignee; whofe right can be no better than that of his author, and mutt therefore remaia affected with all the burdens which attended it in the author's perfon.

Sect. XVIII. Of Arrefiments arid Poindings.

1. The diligences, whereby a crecitor may affect his debtor's moveable fubjects, are arre/fment and poinding. By arrefment is fometimes meant the fecuring of a criminal's perfon till trial ; but as it is underfood in the rubric of this titie, it is the order of a judge, by which he who is debtor in a moveable obligation to the arreftor's debtor, is prchibised to make payment or delivery till the debt due to the arrefter be paid or fecured. The arrefter's debtor is ufually called the common debtor; becaufe, where there are two or more competing creditore, he is debtor to all of them. The perfon i: v:hofe hands the diligence is ufed is nyled the arreilec.
2. Arreflment mav be laid on by the authority either Yol. XI. Part 31.

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of the fupreme court, or of an inferior jufge. In the firlt cafe, it proceeds either upon fperial letiers of arrefiment, or on a warrant coritaincd in lettess of horning; and it muft be exccuted by a :neffenger. The warrants granted by inferior judges are called precepts of arreftment, and they are execuied by the officer proper to the court. Where the debtor to the common deltor is a pupil, atreltment is properly ufed in the hands of the tutor, as the pupil's adminiftrator: this doctrine may perhaps cxtend to other general adminiArators, as commiffioner, \&c. But arreftment, ufed in the hands of a factor or fleward, cannot found an action of forthcoming "ithout calling the conftituent. Where the debtor to the common debtor is a corporation, arreftment muft be ufed in the hands of the direlors or treafurer, who reprefent the whole body. Arreftment, when it is ufed in the hands of the debtor himfelf, is inept ; for that diligence is intended only as a reftraint upon third parties.
3. All debts in which one is perfonally bound, though they hould be heritably fecured, are grounds upon which the creditor may arreft the moveable eftate belonging to his debtor. Arrefment may proceed on a debt, the term of payment whereof is not yet come, in cafe the debtor be vergens ad inopiam. If a debt be not yet conflituted by decree or regifration, the creditor may arife and execute a fummons againft his debtor for payment, on which pending action arreftment may be ufed, in the fame manner as inhibition, which is called arrefiment upon a dependence. If one's ground of credit be for the performance of a fact, or if his depending procels be merely declaratory, without a conclufion of payment or delivery, fuch claims are not admitted to be fufficient grounds for arreltment.
4. Moveable debts aze the proper fubject of arrefl- What deb:s ment; under which are comprehended conditional arreftable. debts, and even depending claims. For lefiening the expence of diligence to creditors, all bonds which have not been made properly heritable by feifin are declared arreftable : but this does not extend to adjudications, wadfets, or other perfonal rights of lands, which are not properly debts. Certain moveable debts are not arreftable. (1.) Debts due by bill, which pafs frons hand to hand as bags of money. (2.) Future debts; for though inhibition estends to adquirenda ats well as adquijlia, yet arreftment is limited, by its warrant, to the debt due at the time of ferving it againt the arreftee. Hence, an arrelment of rents or intercft carries only thofe that have already cither fallen due or at leaft become current. Claims, depending on the ifue of a fuit, are not confidered as future debts; for the fentence, wher pronounced, has a retrofpcet to the period at which the claim was firlt founded. The like doctrine holds in conditional debts. (3.) Alimentary deb:s are not arreftable; for thefe are granted on perfonal confiderations, and fo are not communicable to creditors: but the palt interelt due upon fuch debt may be arrelted by the perfon who has furnithed the alimony. One cannot fecure his own effects to himfelf for his maintenance, fo as they fiall not be afeetable by his creditors. Salaries annexed to offices granted ly the king, and particularly thofe granted to the judges of the feffion, ard the fees of fervants, are comfideed as alimentary funds; but ti.c furplus fee, over

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and above what is neceliiry for the fervant's perfenal ufes, may le arrefted. It has allo been found, that a wadfet $f_{1}$, configned after an order of redemption ufed, but before decreet of deciarator, is not arreltable.
5. If, in contempt of the arreftment, the arrence flall mane payment of the fum, or deliver the goods arrefted, w the common oebtor, he is not only liable ciminally for breach of arreftment, but he mutt pay the debt again to the arreRer. As the lave formerly thood, an arteftment uted at the martet crols of Edinburgh, pier ard fthore of Leith, againtt a perfon furth of the kingdom, was good; fo that if the arreltee made paymen: io his creditor after the date of the arreltment, he was found liable in fecond payment to the arieller, becaufe he had done all in his power to notify his diligence. This, however, is very properly altered ly $\$ 3$. of the act of the 23 d Geo. I1I. which declares that an arreftment ufed at the market crofs of EdinGurgh, pier and fhore of Leith, in the hands of any perfon out of the liingdom, withort other fufficient notification, thall not interpel the arreftee from paying bona fide to the original creditor. Arrelin:ent is not meecly prohibitory, as inhibitions are; but is a ftep of diligence which founds the ufer in a fubfequent action whereby the property of the fubject arrefted may be adjudged to him. It therefore does not, by our latter practice, fall by the death of the arrettee; but continues to fubiff, as a foundation for an action of forthcoming againft his heir, while the fubject arrefted remains in medio. Far lefs is arreftment lof, either by the death of the arrefter, or of the common debtor.
6. Where arreftment proceeds on a depending action, it may be loofed by the common debtor's giving fecurity to the arrefter for his debt in the event it fhall be found due. Arreftment founded on decrees, or on regiftered obligations, which in the judgement of law are decrees, cannot be loofed but upon payment or confignation; except, (1.) Where the term of payment of the debt is not yet come, or the condition has not yet exifted. (2.) Where the arreftment has proceeded on a regiftered contrat, in which the debts or mutual obligations are not liquid. (3.) Where the decree is fufpended, or turned into a libel; for, till the iafpenfion be difcufied, or the pending action concluded, it cannot be known whether any debt be truly Jue. A loofing takes off the nexus which had been laid on the fubject arrefted; fo that the arreftee may thereafter pay lafely to his creditor, and the cautioner is fubflituted in place of the arreftment, for the arrefter's fecurity: yet the arrefter may, while the fubject continues with the arreftee, purfue him in a forthcoming, notwithftanding the loofing.
Forthecoming on arreftment.
7. Arreftment is only an inchoated or begun diligence ; to perfect it, there mult be an adion brought by the arrefter againft the arreftee, to make the debt or fubject arrefted forthicoming. In this action, the common debtor muft be called for his intereft, that he may have an opportunity of excepting to the lawfulnefs or extent of the debt on which the diligence proceeded. Berore a forthooming can be purfued, the debt due by the common debtor to the arrefter muft be liquidated ; for the arrefter can be no further entitled to the fubject arrefted than to the extent of the debt due to him by the common debtor. Where the fub.
ject arrclted is a fun of money, it is, by the decree of Law c forthcoming, directed to be paid to the purfuer towards Scotlan fatisfying his debt; where goods are arrefied, the judge ordains them to be expoled to fale, and the price to be delivered to the purfuer. So that, in either cafe, decrees of forthcoming are judicial aflignations to the arretter of the fubject arrefted.
8. In all competitions, regard is had to the dates, not of the grourds of debt, but of the diligences proceeding upon them. In the competition of arrefments, the preference is governed by their dates, according to the priority even of houns, where it appears with any certainty which is the firt. But, as arreflment is but a begun diligence, therefore if a prior arrefter thall neglect to infift in an action of forthcoming for fuch a time as may be reafonably conftrued into a defertion of his begun diligence, he lofes lis preference. But, as dereliction of diligence is not eafily prefumed, the diflance of above two years, between the firf arrefment and the decree of forthcoming, was found not to make fuch a mora as to entitle the pofterior arrefter to a preference. This rule of preference, according to the dates of the feveral arreftenents, holds, by our prefent practice, whether they lave proceeded on a decree or on a dependence; on debts not yet payable, or on debts already payable; provided the pendency fall have been clofed, or the debt have become payable, before the iflue of the competition.

By act 23 d Geo. 1II. § 2. it is enacted, that when a debtor is made bankrupt, in terms of the aft 1696 , as thereby extended (clxxxiii. 13.), all arreftments which thall have been ufed for attacling any perfonal effects of fuch bankrupt within thirty days prior to the bankruptcy, or within four kalendar months immediately fubfequent, fhall be pari pa/ $\sqrt{u}$ preferable : and in order to fave as far as polible the expence of a multiplicity of arrefments, it is declared, that where the effects of a debtor are arrefted by any creditor within thirty days before the bankruptcy, or within fuur months after it, and a procefs of forthooming or multiplepoinding is brouglit in which fuch arreftment is founded on, it fhall te competent for any other creditor producing his intereft, and making his claim in the faid procefs, at any time before the expiration of the faid four months, to be ranked in the fame manner as if he had ufed the form of arreftment; the expence of raifing the procefs, and of the diligence at the intance of the creditor who raifes it, being always paid out of the common fund. We bere again repeat, that the enactments of this flatute are only temporary, and not yet a permanent part of the law of Scotland, whatever they may become when the fubject is refumed by the legifature upon the expiry of the act.
9. In the competition of arreftments with affignations, an affignation by the common debtor, intimated before arreftment, is preferable to the arreftment. If the affignation is granted before arreftment, but nut intimated till after it, the arrefter is preferred.
10. Poinding is that diligence affecting moveable Poinding. fubjects, by which their property is carried directly to the creditor. No poinding can proceed, till a charge be given to the debtor to pay or periorm, and the days thereof be expired, except poindings againit vaffals for their feu-duties, and poindings againit tenants for rent, proceeding upon the landlord's own decree; in which

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Law of the ancient cultom of poinding wishout a previous cotland. clarge continues. A deintor's goods may be poinded by one creditor, though they have been arrelled before by another ; for arreflinent being but an imperiect diligence, leaves the right of the fubject aill ir the debtor, and fo cannot hinder any creditor from ufing a more perfect diligence, which has the effect of carrying the property directly to limfelf.
11. No cattle pertaining to the plough, nor inftru. ments of tillage, can be poinded i:1 the time of labouring or tilling the ground, unlefs where the debtor has no other goods. By labouring time is underflood, that time, in which that tenant, whofe goods are to be poinded, is ploughing, though he hould have been earlier or later than his neighbours; but fummer fallowing does not fall under this rule.
12. In the execution of poinding, the debtor's goods muft be apprailed, firt, on the ground of the lands where they are laid hold on, and a fecond time at the market crofs of the jurifdition, by the ftated, apprailers thereof; or, if there be none, by perfons named by the meffenger or other officer employed in the diligence. Next, the meffenger mult, after public intimation by three oyeffes, declare the value of the goods according to the fecond appraifement, and require the debtor to make payment of the debt, including interent and expences. If payment thall be offered to the creditor, or in his abfence to his lawful attorney; or if, in cafe of refufal by them, confignation of the debt fhall be made in the hands of the judge ordinary or his clerk, the goods mutt be left with the debtor; if not, the meffenger ought to adjudge and deliver them over, at the appraifed value, to the uler of the diligence towards his payment: and the debior is entitled to a copy of the warrant and executions, as a voucher that the debt is difcharged in whole or in part by the goods poinded.
13. Minifers may poind for their ftipends, upon one appraifement on the ground of the lands, and landlurds were always in wfe to poind 10 , for their rents. Appraifement of the goods at the market crofs of the next royal borough, or even of the next head borough of fiewartry or regality, though thefe jurifdictions be abolifhed, is declared as fufficient as if they were carried to the head burough of the thire. Poinding, whether it be confidered as a lentence, or as the execution of a fentence, mult be proceeded in between fun-rifing and fun-fetting; or at leaft it muft be finithed before the going off of day-light. - The powers of the officer employed in the execution of poindings are not clearly defined by cuftom, in the cale of a third party claiming the property of the goods to be poinded. This is certain, that he may take the oath of the claimant, upon the verity of his claim; and if from thence it fluall appear that the claimant's title is collufive, he ought to proceed in the diligence; but if these remains the leaft doubi, his fafeil courfe is to deliver the goods to the claimat.t, and to exprefs in his cxecution the reafons why poinding did not proceed.
14. Any perfon who fops a poinding vira fac7i, on groundlefs pretences, is liable, both criminally, in the pains of deforcement ( $e e \mathrm{~N}^{\mathrm{o}}$ clxxsvi. 15.), and civilly, in the value of the goods which might have been poinded by the creditor.

By the forefaid fatute 23 Geo . 111. § 4 . it is de-- lared, that after a perfon is rendered barhrunt, as

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thercby directed, no poinding of the moverbles belonying to fuch bankrupt, within 30 days before his bankruptcy, or within four kalender months thereafter, thall give a preference to fuch poinder over the other lavful creditors of the bankrupt; but the goods to poinded flall be confidered as in medio, and the perforn receiving the price of them thall be liable to make the fame forthcoming, fo as that all the other creditors of the bankrupt who are poffefled of liquidate grounds of debt or decrees for payment, liall be entitled to their proportion of the fame; provided they make their clain by fummoning the poinder at any time before the expiration of the faid four months, deducting always the expence of fuch poinding from the firt end of the price of fuch goode, together with 25 per cent. on the appraifed value, which the poinder hlall retain to account of his debt in preference to the other creditors; referving liberty to him to rank on the remaining fum for the full amount of the debt contained in his diligence. And it is by the faid act further declared, that where any perfon concerned in trade or manufactures is bankrupt, as before-mentioned, it may be lawful for any creditor, to the amount of 1001 . or any two creditors to the amount of 1501 . or any three or more creditors to the amount of 2001 . or upwards, to apply for fequefration of the eftate real and perfonal belonging to the debtor; after awarding which, an interim factor, and then a truftee, fhall be chofen by the creditors, who is to conduct the bufinefs of the fequeffration, according to the various rules fised and laid down by the fitute. The act, however, expretsly excludes all others, except thofe concerned in trade or manufactures, from the benefit of the fequeftration; but it is probable, when it comes to be renerred or digefted in another form, this part of it will fuffer an aiteration.

> Sect. XIX. Of Preforipion.
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1. Prefeription, which is a method, both of eltablih. Preecriping and of extinguithing property, is cither pofitive tion. or negative. Pofilive prefription is generally defined. as the Roman $u /$ fcapio. The acquifition of property (it fhould rather be, when applied to our law, the fecuring it agaiuft all further challenge) by the poffefLon's continuing his poffellion for the time which law has declared fufficient for that purpofe: negative, is the lofs or amiffion of a right, by neglecting to follow it forth, or wfe it, during the whole time limited by law. The doctrine of prefcription, which is, by fome writers, condemned as contrary to jullice, has been introduced, that the claims of negligent creditors might not fubfifl forever, that property might be at latt fixed, and forgeries difcouraged, which the difficulty of detecting mult have made exceeding frequent, if no length of time had limited the legal cffce of writings.
2. Pofitive prefcription was firt introduced into our Pofiurc. law by 1617, c. 12. which enacts, that whoever fhall have poffefled his lands, annualrents, or other heritagec, peaceably in virtue of infeftments, for 40 years continually after their dates, fhall not thereafter be difquieted in his richt by any perfon pretending a betier title. Under heritages are comprehended every right that is fundo onneruum, and capable of continual polfe in

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fion. Contimued pofeffion, if proved as far back as the memory of man, prefumes pofeftion upwards to the date of the infeftment. The whole courfe of poifelfion muft by the af be founded on feifins; and confequently no part thereof on the bare right of apparency: but 40 years poffeffon, without feifin, is fufticient in the prefcription of fuch heritable rights as do not require feifin. The pofieffion muft alfo be without any la $\begin{aligned} & \text { of } \\ & \text { lat }\end{aligned}$ interruption, i. e. it muff neither be interrupted cira facti, nor cia juris. The prefcrivtion of fubjects not exprefed in the infeftment as fart and pertinent of another fubject fpecially expreffed, has been explaincd, Ne clwvii. 6.
3. The adt requires, that the poffeffor produce, as his title of prefcription, a charter of the lands preceding the 40 years poffertion, with the feifin following on it : and where there is no charter extant, feifins, one or more, flanding together for 40 years, and proceeding either on retours or precepts of clarè confot. This has given vife to a reafonable diftinction obferved in practice, between the prefcription of a fingular fucceffor, and of an heir. Singular fucceftors muft produce for their title of prefcription, not only a feifin, but its warrant, as a charter, difpofition, \&c. either in their own perfon, or in that of their author: but the preduction, by an heir of feifins, one or more, ftanding logether for 40 years, and proceeding on retours or precepts of clare corfat, is fufticient. The heir is not obliged to produce the retours or precepts on which his feifins proceed, nor is the fingular fucceffor obliged to produce the ground of his charter : fo that if the title of prefeription produced be a fair deed, and a fulficient title of property, the poffeffor is fecure by the act, which admits no ground of challenge, but falfehood. A fpecial ftatute, for eftablifhing the pofitive prefcription in morcable rights, was not neceffary: for, fince a title in writing is not requifite for the acquiring of thefe, the negative prefcription, by which all right of action for recovering their property is cut off, effectlually fecures the pofteffor.
4. The negative prefcription of obligations, by the laple of 40 years, was introduced into our law long before the politive, ( 1469, c. $29 .-147 \%$, c. 55. ) This prefcription is How amplified by the forefaid act (16:7), which las extended it to all actions compeient upon heritable bonds, reverfions, and others whatfoever; unlefs where the reverfions are either incorporated in the body of the wadfet-right, or regifered in the regif. ter of reverfions: And reverfions fo incorporated, or regiflered, are not only esempted from the negative prefcrintion, but they are an effectual bar againlt any perfon from pleading the pofitive.
A frortet regative preícription.

Negative prefcription.
actions where the purfuer is admitted to prove his litel by his own oath in litem.
6. Servants fees, houle rents, men's ordinaries, (i. e. Prefripmoney due for board), and merchants accounts, fall tion of fer. Lirder the triennial prefcription, (by 5579, c. 83.) vants Eees, There is alfo a general claufe fubjoined to this Atatute, \&ic. of oilier the like debis, which includes alimentary debts, wages due to workmen, and accounts due to writers, agents, or procurators. Thefe debts may, by this act, be proved after the three years, either by the writing or oath of the debtor; fo that they prefcribe only as to the mean of proof by witneffes: but after the three years it behoores the creditor to refer to the debtor's oath, not only the conftitution, but the fubfifence of the debt. In the prefcription of houfe rents, fervants fees, and alimony, each term's rent, fee, or alimony, runs a feparate ccurfe of prefcription; fo that in an action for thefe the claim will be reftricted to the arears incurred within the three years immediately before the citation: But, in accounts, prefcription does not begin till the laft axticle; for a fingle article cannot be called an account. Actions of removing mult alfo be purfued within three years after the warning. Reductions of erroneous retours prefcribe, if not purfued within 20 years.
7. Ninifters dipends and multures prefcribe in five Of miniyears after they are due; and arrears of rent, five years sters ftiafter the tenant's removing from the lands. As the ${ }^{p}$ prefcription of mails and duties was introduced in favour of poor tenants, that they might not fuffer by neglecting to preferve their difcharges, a proprietor of lands fubject to a liferent, who bad obtained a leafe of all the liferented lands from the liferenter, is not en titled to plead it, nor a tackfman of one's whole eftate, who had by the leafe a porser of removing tenants. Bargains concerning moveables, or fums of money which are proveable by witnefies, prefcribe in five years after the bargain. Under thefe are included fales, locations, and all other confenfual contrafts, to the conffitution of which writing is not neceflary. But all the above-mentioned debts, may, after the five years, be proved, either by the oath or the writing of the debtor; of which above, (par. 6.) A quinquennial prefcription is eftablifhed in arreftments, whether on decrees or depending actions: The firft prefcribe in five years after ufing the arrefiment, and the laft in five years after fentence is pronounced on the depending action.
8. No perfon binding for or with another, either as Limitation cautioner or co-principal, in a bond or contraet for a of cautions fum of money, continues bound after feven years from the date of the bond, provided he has either a claufe of relief in the bond, or a feparate bond of relief, intimated to the creditor, at his receiving the bond. But all diligence ufed within the feven years againft the cautioner fhall fand good. As this is a public law, intendeld to prevent the bad confequences of rafh engagements, its benefit cannot, before the lapfe of the feven years, be renounced by the cautioner: As it is correctory, it is frictly interpreted: Thus, bonds bearing a mutual claufe of relief pro rata, fall not under it; nor bonds of corroboration, nor obligations, where the condition is not purified, or the term of paymea: not come within the feven years; bccaufe no di-
ligence can be tifed on thefe. The fiatute excludes all cautionries for the faithful difcharge of oftices; thefe not being obligations in a bond or contract for fums of money. And praciice has denied the bencfit of it to all judicial catitioncre, as cautioners its a fufpenfion.-Actons of count and reckoning, competent cither to minors againf their tuitors or curators, or vice verfa, prefribe in ten years after the majority or death of the minor.
9. Holograph bonds, mishue letters, and books of account, not attelled by witnelles, preecribe in 20 years, unlefs the crediter fhall thereafter prove the verity of the fubfcription by the debtor's oath. It is therefore fufficient to fave from the effect of this prefoription, that the conftrution of the debt be proved by the party's oath after the 20 years; whereas, in ftipends, merchants accounts, \& c. not only the conftituion, but the fubfittence of the debt, muft be proved by writing or the debtor's oath, after the term of prefeription. Some lawyers extend this prefcription of holograph writings to all obligations for fums not exceeding iool. Scots, which are not attelled by winefles; becaufe though thefe are in practice fuftained, yet they ought not to have the fame duration with deeds attefted by witreffes. Though in the flort preicriptions of debts, the right of action is for ever lof, if not exercifed within the time limited: yet where action was brought on any of thofe delits, before the prefeription was run, it fublithed, like any other right, for 40 years. As this defeated the purpofe of the acts eftablihing thefe prefcriptions, all procefies upon warnings, fpuilzies, ejections, or arreflments, or for payment of the debts contained in act 166 g , c. 9 . are by the faid act joined with 1685 , c. 14. declared to prefcribe in five years, if not wa. kened within that time; fee $N^{0}$ clxxxiii. 26.

1c. Certain obligations are loft by the lapfe of lefs than 40 years, without the aid of ftatute, where the nature of the obligation, and the circumflances of parties juftify it: thus, bills which are not intended for lafting fecurities, produced no action, where the creditor had been long filent, unlels the fubfiftence of the debt be proved by the debtor's oath; but the precife time was not fixed by practice. But the duration of bills is row limited to fix years by the 12 Geo. III.; sendered perpetual by 23 Geo. Ill. Thus alio, a receipt for bills granted by a writer to his emplover, not infinted upon for 23 years, was found not productive of an action. The prefcriptions of the reftitution of mincrs, of the benefit of iaventory, \&c. are cxplained in their proper places.
it. In the pofitive prefcription, as eftablifned by the act $16: 7$, the continued poffifion for 40 years, proceeding upon a title of property not chargeable with fallebood, fecures the porfeflor againf all other grounds of challenge, and fo prefumes bona fides, priefumptione juris et de jure. In the long negative prefoription. bona fides in the debtor is not required: the creditor's neglecting to infit for fo long a time, is conftrued as an abandoning of his debt, and fo is equivalent to a difcharge. Hence, though the fubliftence of the debt mould be referred to the debtor's own oath. after the 42 yeare, he is not liable.
12. Prefcription runs de momento in monentum: the whole time defined by law mull be completed, before
a right can be eitl:er acquired or luik by it ; fu that Law e: interruption, made on the lant diyy of the poth year, $\underbrace{\text { Scotlan! }}$ breaks ita courle. 'The poftive prefription runs prefripagainalf the fovercign himfetf, even as to his ameved tion, againf property; but it is generally thought he cannot fufferviom it by the negative : he is fecured againt the negligenceruns. of his officers in the managernent of pracefles, by exprefs flatute, 1603 , c. ${ }^{1}$. The negative, as well as the pofitive prefcription, runs againlt the church, though churchmen have but a temporary interen in their benefices. But becaufe the rights of beneliciaries to their Aiperds are liable to accidents, through the frequent change of incumbents, 13 years pofleffron dces, by a rule of the Roman chancery which we have adopted, found a prefumptive title in the benef. ciary : but this is not properly prefeription ; for if by titles recovered, perhaps out of the incumbent's own hands, it fhall appear that he has pollifed tittes or: other iubjects to a greater extent than he ought, his poffeffion will be refricted accordingly. This righe muft not be confounded wish that ettablithed in favou: of cherchmen, which is confined to church lands and rents, and conftitutes a proper prefcription upon a poffelion of 30 years.

J3. The claufe in the aft 1617 , faving minors frome prefcription, is extended to the poficive, as well as to the negative prefcripition; but the exception of minority is not admitted in the cafe of hofpitals or children, where there is a continual fucceffion of minors, that being a cafus infolitus. Minors are exprefily excepted in feveral of the thort prefcriptions, as ij79, c. 18.-J 669, c. $9 . ;$ but where law leaves them in the common cafe, they mutt be fubject to the common rules.
14. Piefcription does not run conifa mon valentem agere, againt one who is barred by fome legal incapacity, from purfuing; for in fuch cafe, nei:her negligence nor dereliction can be imputed to him. This rule is, by a favourable interpretation, cxtended to wives, who ex reverentia maritalif rbear to purfue actions competent to them againf their hulbands. On the fame ground, prefcription runs only from the time that the debt or right could be fued upon. Thus, inhibition prefcribes only from the publiting of the deed granted to the inhibiter's prejudice; and in the prefcription of removines, the years are complited only from the term at which the defender is warned to remove. Neither can prefcription run againft perfons who are already ir poffliou, and fo can gain nothing by a purfuit. Thus, wikere a perfon, who inas two acijudications affecting the fame lands, is in poffelfion upon one of them, rrefcription camos run againtt the other during fuch Duffefion.
15. Certain rights are incapable of prefcription: Certain (1.) Things that lav has exempied from commerce, rizhes inca(2.) Res mera faculiatis, e. g. a faculty to charge a fubject witb debts, to reroke, \&c. cannot be lolt by preferipprefcription; for faculties may, by their nature, be exercifed a: any time: hence, a proprictor's right of ufing any act of property on his own grounds cannot be lon by the greatef length of time. (3.) Exceptions competent to a perfon for eliding an action, cannot prefcribe, unlefs the exception is founded on a right productive of an action, e. g. compenfation; fuch right muf be infited on within the years of prefcription.

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(4.) Oligations of yearly panfions or payments, though no demand las been made on them for 40 years, do not fufier a total prefcription, but ftill fubfilt as to the arrears fallen due within that period; becaufe prefcription camot run againt an obligation till it be payable, and each year's penfion or payment is coatidired as a feparate debt.
16. No right can be lof now mondo hy one, un?efs the ciffect of that prefcription be to eftablifh it in another. Hence the rule arifes, juri fanguinis munquan procercribitur. Hence alfo, a proprietor of land cannot lofe his property by the negative prefcription, unlefs he who objects it can himfelf plead the politive. On the fame ground, a fuperior's right of feu duties cannot be loft non utendo; becaufe, being inherent in the fuperiority, it is truly a right of lands that cannot fuffer the negative prefcription, except in favour of one who can plead the pofitive; which the vaftal cannot do, being deftitute of a title. This rule applies alfo to parfonage tithes, which are an inherent burden upon all lands not fpecially exempted; and from which therefore the perfon liable cannot preforibe an immunity by bare non-payment: but fuch vicarage tithes as are only due where they are eftablithed by ufage, may be lolt by prefoription. In all thefe cales, though the radical right cannot fuffer the negative prefcription, the bygone duties, not demanded within the 40 years, are lolt to the proprietor, fuperior, or titular.
Interruption of prc feription.
17. Prefcription may be interrupted by any deed whereby the proprictor or creditor ufes his right or ground of debt. In all interruptions, notice mult be given to the poffeffor of the fulject, or the debtor, that the proprictor or creditor intends to fue upon his right. All writings whereby the debtor himfelf acknowledges the debt, and all procefles for payment brought, or diligences ufed againlt him upon his obligation by horning, inhibition, arreftment, \&c. muft be effectual to interrupt prefeription.
18. Interruptions, by citation upon libelled fummonfes, where they are not ufed by a minor, prefcribe, if not renewed every feven years: but where the appearance of parties, or any judicial act has followed thereupon, it is no longer a bare citation, but an action which fubfifts for 40 years. It has been found, that the fexennial prefeription of bills is not interrupted by a blank citation, as practifed in the court of admiralty. Citations for interrupting the prefoription of real rights mult te given by meffengers; and the fummonfes, on which fuch citations proceed, mult pals the fignet upon the bill, and be regiftered within 60 days after the exccution, in a particular regifter appointed for that purpofe : and where interruption of real rights is made ria facti, an inftrument mult be taken upon it, and recorded in the faid regifter; otherwife it can have no effect againft fingular fucceffors.
19. Interruption bas the effect to cut off the courfe of prefcription, fo that the perfon prefcribing can avail himfelf of no part of the former time, but muft begin a new courfe, commencing from the date of the interruption. Minority, therefore, is no proper interruption: for it neither breaks the courfe of prefcription, nor is it a document or evidence taken by the minor on his right: it is a perfonal privilege competent to him, by which the operation of the prefription is in-
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deed fufpended during the years of minority, which are therefore difcounted from it ; but it continues to run after majority, arsd the years before and after the minority may be conjoined to complete it. The fame doctrine applies to the privilege arifing from one's iticapacity to act.
20. Diligence ufed upon a debt, againt any one of two or more co-obligants, preferves the debt itielf, and fo interrupts prefcription againit all of them ; except in the fpecial cafe of cautioners, who are not affected by any diligence ufed againtt the principal debtor. In the fame mamner, a right of annualrent, conftituted upon two feparate tenements, is preferved as to hoth from the negative prefription, by diligence uled againtt cither of them. But whether fuch diiigence has alfo the efiect to hinder the poffefior of the other tenement by fingular titles from the benefit of the politive prefcription, may be doubted.

## III. OF SUCCESSION.

## Sect. XX. Of Succefion in Heritable Rights.

I. Singular fucceffors are thofe who fucceed to a Succeffor perfon yct alive, in a fpecial fubject by fingular titles; if , wat but fucceffion, in its proper fenfe, is a method of tranfmitting rights from the dead to the living. Heritable rights defcend by fucceffon to the heir properly fo called; moveable rights to the executors, who are fometimes faid 10 be heirs in moveables. Succeffion is either by fiecial defination, which defcends to thofe named by the proprietor himfelf; or legal, which devolves upon the perfous whom the law marks out for fucceflors, from a prefumption, that the proprieter would have named them had he made a deftination. The firf is in all cafes preferred to the other, as prefumption muft yield to truth.
2. In the fucceffion of heritage, the heirs at law Order of are otherwife called heirs general, heirs whatfoever, fucceffion or heirs of line; and they fucceed by the right of in heritas blood, in the following order. Firft, Defcendants; among thefe, fons are preferred to daughters, and the eldeft fon to all the younger. Where there are daughters only, they fucceed equally, and are called heirs portioners. Failing immediate defcendants, grandw children fucceed; and in default of them, greatgrandchildren ; and fo on is infinitum; preferring, as in the former cafe, males to femalcs, and the eldeft male to the younger.
3. Next after defcendants, collaterals fucceed ; among Collateral whom the birhers germon of the deceafed lave the firlt place. But as, in no cafe, the legal fucceffion of heritage is, by the law of Scotland, divided into parts, unlefs where it defcends to females; the immediate younger brother of the deceafed excludes the reft, according to the rule, heriage defcends. Whese the deceafed is himfelf the youngelt, the fucceffion goes to the immediate elder brother, as being the leatt deviation from this rule. If therc are no brothers german, the filters grmain fucceed equally: then brothers confanguinean, in the fawe order as brothers german; and faiting them, fifters confanguinean equally. Next, the father fuccecds. After him, his brothers and fillers, according to the rules alleady exp!ained; then the grandfather; failing lim, lis brothers and lilters; and
auw of fo upwards, as far back as propinquity can be proved. Though children fucceed to their mother, a nother
cannot to lier child: nor is there any fucceffion by our law through the mother of the deceafed; infomuch that one brother uferine, i. e. by the mother only, cannot fucceed to ancther, even in that eflate whicia Howed originally from their common mother.
4. In heritage there is a righe of reprefentation, by wh ch one fucceeds, not from any title in himfelf, but in the place, and as repreferting fome of his deceafed afendanss. Tlius, whicre one leaves a vounger fon, and a grandchild ty his eldefi, the grandci:itd, though tarther removed in degree from the decealed than his uncle, excludes lim, as coming in place of his father the eldul fon. Hence arifes the diflinetion between fucceftion in copita, where the disifion is made into as many equal parts as there are copita or bcirs, which is the cafe of heirs portioners; and fucceffion in firpes, where the remoter heirs draw no more among them than the fhate belonging to their afcendants or Airps, whom they reprefent; an example of which may be figurcd in the cafe of ore who laaves behind him a daughter alive, and two grand daughters by a daugliter deceafed. In which cafe the two grand daughters would fucceed equalty to that half which would have belonged to their mother had fhe been alive.
5. In the fuccefion of heirs potionere, indivifible rights, e. g. titles of dignity, fall to the eldent filter. A fingle right of fupcriority goss alfo to the cldef; for it hardly admits a divifien, and the condition of the valfal ought not to be made worfe by multiplying fuperiors upon him. Where there are more fuch rights, the eldeit may perhaps have ber election of the ber; but the younger fiflers are entitled to a recompenfe, in fo far as the divifions are uneçual; at leaft, where the fuperiorities yield a countant yearly remt. The principal feat of the family falls to the eldeft, with the garden and orchard beloaging to it, without recompenfe to the younger finters; but all other houfes are divided amongh them, together with the lands on which they are built, as parts and pertinents of thefe hands. A pracipzum, lowever, is due only in the cafe of fucceftion of heirs potioners ab inteflato; and therefore there is no place for it where the fucceflion is taken under a deed.
6. Thofe heritable rights, to which the deceafed did 6. Thofe heritable rights, to which the deceafed did
himelif fucceed as heir to his father or other anceftor, get fometimes the name of heritage in a friet fenfe, in oppoition to the feuda nova, or feus of conquell, which l:e had acquired by fingular titles, and which defeend not to his beir of line, but of conqueft. This diftincion obtains only where two or more brothers or uncles, or their iffue, are next in fucceffion ; in which cafe, the immediate younger brother, as heir of line, fucceeds to the proper heritage, becaufe that defcends; whereas the conquelt afcends to the immediate elder brother. It has no place in female fucceffion, which the law divides equally among the heirs portioners. Where the deceafed was the younger brother, the imsediate elder brother is heir both of line and of conçueft. Au eftate difponcel by a father to bis eldeff fon, is not conqueft in the fon's perfon, but heritage; becaufe the fon would have fucceeded to it, though there had been no difpofition. The heir of congueft fuccceds to all rights afincting land, which require fifin to perfect them. Bu:t - whe redror
teinds go to the lacir of line; becaufe they are masely a burden on the fruits, not the land. 'Tacks do mot f.11 wader conqueft, becaule they are complete rights without feifin ; nor perfonal bonds taken to heirs fectuding extcutors.
7. The heir of line is entited to the fucceflion, not Itiveraiponly of fubjects properly heritable, bust to that fori of moveables. moveables called heirybip, which is the beft of curt Tin kinds. This doctrine has been probably introduced, that the heir might not have a houfe and eflite to fuc. ceed to, quite difinantled by the executor. In that fort which goes by pairs or dozens, the beft pair or dozen is the heirfhip. There is no heirfhip in fungibles, or things eflimated by quantity; as grain, hay, current money, \&c. To entitle an heir to this privilege, the deceafed muft have been cither, (r.) A prelate: (2.) A baron, i. e. who ftood infeft at his death in lands, though not erected into a barony; or even in a right of annuahent: Or, (3.) A burgefs; not an honorary onc, but a trading burgefs of a royal burough, or at leaft one entitled to enter burgefs in the right of his anceltor. Neither the heir of conqueft, nor of tailzie, has right to heir!hip moveables.
8. As to lucceffion by deffination, no proprietor can Succeffion fettle any heritable eflate, in the proper form of a tefta-hy deftinamient; not ceen bonds fecluding executors, though tion. thefe are not heritabie ex funa intura: But, where a teftament is in part drawn up in the Ityle of a deed inter wivos, fuch part of it may contain a fettlement of heritage, though cxecutors flould be named in the teftamentary part. The common method of fettling the fucceffion of heritage is by difpofition, contrat of marriage, or fimple procuratory of refiguation: and. though a difpofition fettling heritage fhould have neither precept nor procuratory, it founds an action againf the heir of line to complete his titles to the eftate; and thereafter divelt himfelf in farour of the difponec. The appellation of tailzie, or entail, is chiefly uied in the calc of a land ellate, which is lettled on a long feries of heirs fubflituted che after another. The perfon forlt called in the tailzie is the inflitute; the rell, the heirs of tailzie, or the fubflitutes.
9. Tailzies, when confidered in relation to their fe- Taikies, veral degrees of force, are either, (1.) Simple deftinations. (2.) Tailzies with prohibitory claufes. (3. Tailzies with prohibitory, refolutive, and irritant clauies. That is a fimple deftination, where the perfons called to the fucceffion are fubfituted one after another, without any reffraint laid on the exercife of tieir property. The heirs, therefore, facceeding to fuch effate, are abfolute fiars, and confequently may alter the deflination at pleafure.
10. In tailzies with clawfes prohibitory, e. g. declaiing that it fhall not be lawful to the heirs to contract debts or alien the lands in prejudice of the fuccelfion, none of the heirs can alien gratuitonfly. But he memhers of entail may contract detits which will be effectual to the creditors, or may difpofe of the cillite for onerous caufes. In both thefe forts the maker hin:feit may alter the tailzie: escept, (1.) Where it has been granted for an onerous caule, as in mutual tailzies: or, (2.) Where the maker is expreffly difabled, as well as the infitute or the heirs.
11. Where a tailzie is guarded with iritant and refolutive claufes, the eftate catailed cannot be carried off
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by the debt, or deed, of any of the heirs fucceeding thereto, in prejudice of the fubfitutes. It was long doubted, whether fuch tailzies ought to be effecqual, even where the fuperior's confent was adhibited; becaufe they funk the property of eftates, and created a

Their requaites. perpetuity of lifeeents. They were firt explicitly authorized by 1685 , c. 22. By this flatute, the entail muft be regiftered in a fpecial regiller ettablithed for that purpofe; and the irritant and refolutive claules muft be inferted, not only in the procuratories, precepts, and feifins, by which the tailzies are firf conftituted, but in all the after conveyances thereof; otherwife they can have no force againt fingular fucceflors. But a tailzie, even without thefe requifites, is effectual again!t the heir of the granter, or againd the inllitute who accepts of it. It bas been found, that an entail, though completed by infeftment before the ad 1685 , was ineffectual, becaufe not recorded in terms of the act.
Heirs of entail, their powers and reftrictions.

Contraver-
tion, by whomin. ferred.
12. An heir of entail has full power over the entailed effate, except in fo far as he is exprefsly fettered; and as entails are an unfavourable reftraint upon property, and a frequent fnare to trading people, they are Arictifimi juris; fo that no prohibition or irritancies are to be iuferred by implication. By 10 George III. c. 5 1. heirs of entail are entitled (notwithftanding any reftrictions in the deed of entail) to improve their eftates by granting leafes, building farm houles, draining, enclofing, and excambing, under certain limitations, and to claim repayment of three-fourths of the expence from the next heir of entail.-This act extends to all tailzies, whether made prior or pofterior to the 1685 .
13. An heir, who counteracts the directions of the tailzie, by aliening any part of the eftate, charging it with debt, \&c. is faid to contravene. It is not the fimple contrating of debt that infers contravention; the lands entailed muft be actually adjudged upon the debt contracted. An heir may, where be is not exprefsly barred, fettle rational provifions on his wife and children, without incurring contravention. It is not quite clear whether the heirs alfo of the contravener would forfeit their right from the acts or deeds of their predeceffor where there is no exprefs claufe in the entailed fettling it; and though the words of the af 1685 (which declares, that entails executed according to the directions of it, thall be effectual not only againft the rontravener and his heirs, but againft creditors), may feem to favour the idea that heirs alfo would forfeit, the more favourable opinion has received the fanction of our fupreme court. For the greater fecurity, however, a claule is now ulually inferted in tailzies, declaring, that the contravention of the beir in poffeffion thall not affect his defcendants, when fuch is the intention of the granter.
14. When the heirs of the laft perfon fpecially called in a tailzie come to fucceed, the irritancies have no longer ray perion in favour of whom they can operate, and confequently, the fee, which was before tailzied, becomes fimple and unlimited in the perfon of fuch heirs. By the late ad 2oth George II. for abolilhing wardholdings, the king may purchafe lands within Scotland, notwithftanding the Aricelt cntail; and where the lands are in the hands of minors or fatuous perions, his majelty may purchafe them from the curators or guardiaios. And heirs of entail may fell to their val-
fals the fuperiorities belonging to the entailed eftate; but in all thefe cales, the price is to be fettled in the fame manner that the lands or fuperiorities fold were fettled beforc the fale.
15. Rights, not only of land eftates, but of bonds, Rights are fometimes granted to two or more perfons in con- taken i junct fee. Where a right is fo granted to two firan-fenjun gers, without any fpecial claufe adjected to it, each of them has an equal intereft in the fee, and the part of the deceafed defcends to his own heir. If the right be taken to the two jointly, and the longef liver and their heirs, the feveral thares of the conjunct fiars are affectable by their creditors during their lives; but, on the death of any one of them, the furvivor has the fee of the whole, in fo far as the thaze of the predeceafed remains free, after payment of his debts. Where the right is taken to the two in conjunct fee, and to the heirs of one of them, be to whofe heirs the sight is taken is the only fiar; the right of the other refolves into a fimple liferent: yet where a father takes a right to himfelf and his con jointly, and to the fon's heirs, fuch right being gratuitous, is not underfood to ftrip the father of the fee, unlefs a contrary intention flall plainly appear from the tenor of the right.
16. Where a right is taken to a hufband and wife, in conjunet fee and liferent, the hufband, as the perfona dignior, is the only fiar: the wife's right refolves into a liferent, unlefs it be prefumable, from fpecial circumflances, that the fee was intended to be in the wife. Where a right of moveables is taken to hurband and wife, the heirs of both fucceed equally, according to the matural meaning of the words.
17. Heirs of provifion are thofe who fucceed to any Heirs of fubject, in virtue of a provifion in the inveniture, or provifios other deed of fettlement. This appellation is given moft commonly to heirs of a marriage. Thefe are more favourably regarded than heirs by fimple deftination, who have only the hope of fucceffion; for heirs of a marriage, becaufe their provifions are conftituted by an onerous contract, cannot be difappointed of them by any gratuitous deed of the father. Neverthelefs, as their right is only a right of fucceffion, which is not defigned to refrain the father from granting onerous or rational deeds, he continues to have the full power of felling the fubject, or charging it with debts, unlefs a proper right of credit be given to the heir by the mariage contract, e . g. if the father thould oblige himfelf to infeft the heir in the lands, or make payment of the fum provided againft a day certain, or when the child attains a certain age, \&c.; for fuch rights, when perfected by infeftment, or fecured by diligence, are effectual againft all the pofterior deeds of the father, even onerous.
18. Though a!l provifions to children, by a mar-Effectso riage contract conceived in the ordinary form, being provifion merely rights of fucceffion, are poftponed to eyery onerous delt of the granter, even to thofe contracted pofterior to the provifions; yet where a father executes a bond of provifion to a child actually exilling, whether fuch child be the heir of a marriage or not, a proper debt is thereby created, which, thnugh it be without doubt gratuitons, is not only effectual againh the father himfelf and his heirs, but is not reducible at the inflance even of his prior onerous creditors, if he was folvent at the time of granting it. is father may, notwithtaading.

## Law of withtar:ding a frirt martriage contract, fett'e a jointure

 on a fecond wife, or provide the children of a fecond marriage; for fucl fetlements are deemed onerous ; but where they are exorbiliant, they will be reftrifed to what is rational: and in all fucli fettlements, where the provifions of the firf ruarriage contract are encroached upon, the heirs of that marriage have recourfe againft the father, in cafe he fhould afierwards acquire a feparate effate, which may enable him to fulfil both obligations.19. In marriage contracts, the conçueft, or a certain part of it, is frequently provided to the inue; by which is underftood whatever real addition fhall be made to the father's eflate during the marriage by purchafe or donation. Conquef therefore muft be free, i. e. what remains after payment of debts due by the father. As in other provifions, fo in conqueft, the father is ftill fiar, and may therefore difpofe of it for onerous or rational caufes. Where heritable rights are provided to the lieirs of a marriage, they fall to the eldeff fon, for he is the heir at law in heritage. Where a fum of money is fo provided, the word heir is applied to the fubject of the provifion, and fo marks out the executor, who is the heir in moveables. When an heritable right is provided to the bairns (or iflue) of a marriage, it is divided equally among the children, if no divifion be made by the father; for fuch deftination cuts off the exclufive right of the legal heir. No provifion granted to bairns gives a fpecial right of credit to any one child as long as the father lives: the right is granted familice; fo that the whole muft indeed go to one or other of them; but the father has a power inherent in him, to divice it among them in fuch proportions as he thinks befl, yet fo as none of them may be entirely excluded, except in extragrdinary cafes.
20. A claufe of return is that, by which a fum in a bond or other right, is in a certain event limited to seturn to the granter himfelf, or his heirs. When a right is granted for onerous caufes, the creditor may defeat the claufe of return, even gratuitoully. But, where the fum in the right flows from the granter, or where there is any other reafonable caufe for the provifion of return in his favour, the receiver cannot difappoint it gratuitoully. Yet fince he is fiar, the fum may be either afligned by him for an onerous caufe, or affected by his creditors.
21. An heir is, in the judgement of laws, endem perfona cum defuncto, and fo reprefents the deceafed univerfally, not only in his rights, but in his debts: in the firt wiers, he is faid to be an heir aclivè; in the fecond, pafive. From this general rale are excepted, heirs fubffituted in a fpecial bond, and even fubflituted in a difpoftion ommum bonorum, to take effect at the granter's deaill ; for fuch fubstitutes are confiuered as fingular fueceffors, and their right as an univerfal legacy, which does not fubject the legatee ultra valarem: but heirs male or of tailzie, though their right be limited to Special fur jects, are liable, not merely to the extent of the fubject entailed or provided, but in folidum; becaule fuch rights are defigned to carry a univerfal charafter, and fo infer a univerfal reprefentation of the granter. The heir of lise is primarily liable for the debss of his predecefor ; for he is the moft proper heir, and fo mult be difcufed before any orher can be purfued ; rext to him the heir of conque?, becau'e be alfo fucceeds to Voz. Xi. Part 11.
the uniterfitus of the whule heritable sights which his predecefior had acquired by lingular titles; then, the hecir male, or of a marriage; for their proginquisy of blood fu'jeets them more directiy than any other hair of tailzie, who may polibly be a itranger ; and who for that reafon is not liable to be difufted, except for fuch of the predeceflur's debts or deeds as relate $\mathrm{f}_{\mathrm{p}}$ recially to the lands tailzied; as to which he is liabie even before the heir of line. Heirs portioners are liable fo rata for their predeceffor's debts; but if any of them prove infolvent, the creditors may, after difcuffing het, infilt for her thare againft the rell, who will be liab!e in fo far as they are lucratce by the fucceffion. Where an heir, liable fubfidariè, pays the predeceffor's deb; he has relief againft the beir who is more dired. ly liable, in refpect of whom he is not co-hecir, bit creditor.
22. Before an heir can have an active title to lis ancefor's rights, he muft be entered by fervice and retour. He who is entitled to enter heir, is, before his acual entry, called apparent hicir. The bare right of Anpar-ns apparency earries certain privileges with it. An ap heiro. parent heir may defend his ancettor's titles ayaint any third party who brings them under ehailenge. Tenants may fafely pay him their rents; and after they have once acknowledged him bs payment, he may compel ther to continue it; and the rents not uplifted by the apparent heir Lelong to his executors, upon his death.
23. As an heir ic, by his entry, fubjected univerfally $\%$ us deliito his anceltor's debts, apparent heirs have therefore a burandi. year (annus deliberandi) allowed to them from the anceftor's deceafe, to deliberate whether they will enter or not: till the expiry of which, though they may be charged by creditors to enter, they cannot be fued in any procefs founded upon fuch charge. Though declaratory alions, and others which contain no perfonal conclufion, may be purfued againft the apparent heir without a previous charge, action does not lie even upon thefe, within the year, is the heir cannos make the proper defences with ut incurring a pafive title. But judicial fales, commenced againit an anceftor, may by ipecial af of federunt be continered upon a citation of the heir, without waiting the year of deliberating. This almus deliberandi is computed, in the cafe of a pofthumous heir, from the birth of fuch beir. An apparent heir, whe, by immixing with the elate of his anceltor, is as much fubjected to his debts as if he lad entered, can have no longer a right to deliberate wherther he will enter or not.
24. All fervices proceed on brieves from the chan-Scrive of cery, which are called brieves of inquef, and have been heirs, long known in Scotland. 'The judge, to whom the brief is direfed, is required to try the matter by an inquelt of 15 fwom men. The inquef, if they find the clain verified, mult declare the clamant leir to the deceafed, by a verdict or fervice, which the julge muft atteft, and return the brief, with the fersice proceeding on it, to the chancery ; from which an extract is ub tained called the retour of the fervice.
25. The fervice of heirs is either gencernl cr / /peciald sueral and A general fervice vefts the heir in the right of all he-fiecin. ritable fubjectc, which cither do not require feilin, ar which have not been perfected by feifin in the perfon of the ancelior. A public nisht, lieerefore, according to $+R$ 11.:
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the feudal law, though followed by feifin, haviag no legal efeets till it be confirmed by the fuperior, mut, as a perfonal right, be carried by a general lervice. A foecial fervice, followed by feinn, welts the beir in the sight of the foectal fubjects in which the anceitor died infeft.
Fintry by
i..ventury
25. If an heir, doubtful whetser the eftate of his ance:tor be fultisient for clearings his debts, fhall, at any :ime witlun the armus delikerandi, exlibit upon oath a full inventory of all his anceftor's heritable fubjects to the clerk of the thire whe re the lands lie; or, if there is sol heritage requiring feifin, to the clerk of the ihire where he died; and if, after the fame is fubfcribed by the therifl or fterifi-depute, the clerk, and himfelf, and regiftered i.s the therifis books, the extract thereof hall be regitered within forty days after expiry of the annus deliberandi in the general regiter appointed for that purpofe, his fubfequent entry will fubject him no farther than to the value of fuch inventory. If the inveatory be given up and regitered within the time prefcribed, the heir may ferve on it, even after the year.
27. Creditors are not obliged to acquiefce in the value of the ellate given up by the heir; but, if they be seăl creditors, may bring the citate to a public fille, in order to difcover its true value; fince an eftate is always worth what can be got for it. An heir by inventory, as he is in effect a trullee for the creditors, noult account for that value to which the eftate may have been improved fince the death of the anceftor, and he mult communicate to all the creditors the cafes he has got in tranfacting with any one of them.
Entry upon a precept
clare conclare con41 t.

Enery by
harp and faple.

A fuecial fervice in-
Eludes a ge naral one.
28. Practice has introduced an anomalous fort of entry, without the interpofition of an inquell, by the fole confent of the fuperior; who, if he be fatisficd that the perfon applying to him is the next heir, grants him a precept (called of clare conflat, from the firft words of its recital), commanding his bailie to infeft him in the fubjects that belonged to his anceltur. The lheir, by taking feifn on this precept, becomes paffive, liable for all the debts of his ancettor; and on the other hand, acquires an active title, as to the fubjects contained in the precept in queftions with the fuperior or his heirs; and they may, when followed by feilin, afford a title of prefcription: But as no perfon can be declared an heir by private authority, they cannot bar the true heir from entering after 20 years, as a legal entry would have done; the true heir, in fuch cafe, having it ftill in his power to fet afide that right, and obtain himfelf regularly ferved at any time within the years of prefeription. Of the fame nature is the entry by hafp and ftaple, commonly ufed in burgage tenements of houles; by which the bailie, without calling an inqueft, cognofces or declares a perfon heir, upon evidence brought before himfelf; and, at the fame time, infefts him in the fubject, by the fymbol of the halp and faple of the door. Charges given by creditors to apparent heirs to euter, ftand in the place of an actual entry, fo as to fupport the creditor's. diligence (clxxii. 2.)
29. A general fervice cannot include a fpecial one; fince it has no relation to any fpecial fubject, and carries only that clals of rights on which feilin has not proceeded: but a fpecial fervice implies a general one of the fame kind or character, and confequently carries
even fuch rights as have not been perfected hy feili:n. Service is not required to eltablilh the heir's right in titles of honour, or offices of the highelt dignity; for thefe defcend jure fanguinis.
30. An heir, by immixins with his anceltor's eftate Pafive 1 without entry, lubjects himfelf to his debts, as if he had tles. entered; or, in our law phrafe, incurs a palfive title. The on!y palfive title by which an apparent heir becomes liable univerfally for all his anceitor's debrs, is geflio pro herede, or lis behaving as none but an heir has right to do. Behaviour as heir is inferred from the Gefiopr apparent heir's intromilion, after the death of the an-brerede. celtor, with any part of the lands or other heritable fubjects belonging to the deceafed, to which he himfelf might have completed an active title by entry.
31. This paffive title is excluded, if the hein's intromifion be by order of law; or if it be founded on fingular titles, and not as heir to the deceaied. Bu: an apparent heir's purchaling any right to his anceftor's eftate, otherwife than at public roup (auction), or his poffelling it in virtue of rights fettled in the perfon of any near relation of the anceftor, to whom he himfelf may fucceed as heir, otherwife than upon purchafe by public fale, is deemed behaviour as heir.
32. Behaviour as heir is alfo excluded, where the intromiffion is fmall, unlefs an intention to defraud the anceftor's creditors be prefumable from the circumftances attending, it. Neither is behaviour inferred againft the apparent heir, from the payment of his anceflor's debt, which is a voluntary act, and profitahle to the creditors: nor by his taking out of brieves to ferve; for one may alter his purpofe, while it is not completed: nor by his affuming the titles of honour belonging to his anceltor, or exercifing an honorary office hereditary in the family; for thefe are rights annexed to the blood, which may be ufed without proper reprefentation. But the exerciling an heritable office of profit, which may pals by voluntary conveyance, and confequently is adjudgeable, may reafonably be thought to infer a paffive title. Laftly, As pafive titles lave been introduced, merely for the fecurity of creditors; therefore, where queftions concerning behaviour arife among the different orders of heirs, they are liable to one another no farther than in valorem of their feveral intromifions.
33. Another paffive title in heritage, may be incur- Praceptic red by the apparent heir's accepting a gratuitous right bereditat from the ancellor, to any part of the eftate to which he himfelf might have fucceeded as heir; and it is called praceptio hicereditatis, becaufe it is a taking of the fuccellion by the heir before it opens to him by the death of his anceftor. If the right be onerous, there is no paffive title; if the confideration paid for it does not amount to its full value, the creditors of the deceafed may reduce it, in fo far as it is gratuitous, but ftill it infers no pallive title.
34. The heir incurring this palive title is no farther liable, than if he had at the time of his acceptance entered heir to the granter, and fo fubjected himfelf to the debts that were then chargeable againft him; but with the pollerior debts he haw nothing to do, not even with thofe contracted between the date of the right and the infeftment taken upon it, and he is therefore called fucceffor titulo lucrativo pof contractum debitum.
35. Neither Lav of
scotland, the fubject intcrmeddled with or difponed be fuch as the intromitter or receiver would fucceed to as heir. In this alfo, thefe two paffive titles agree, that the introniffion in botla mult be after the death of the anceltor; for there can be no termini labiles of a pafive title, while the anceftor is alive. But in the following refpect they differ: Gefio pro hacrede, being a vicious paffive title founded upon a quaifi delict, cannot be objected againf the delinquent's heir, if procefs has not been litifcontefed while the delinquent himfelf was alive; whereas the fucce/for titulo lucrativo is by the acceptance of the difpofition underflood to have entered into a tacit contract with the granter's creditors, by which he undertakes the burden of their debts; and ell actions founded on contract are tranfmiffible againit heirs.
36. An apparent heir, who is cited by the anceftor's creditor in a procefs for payment, if he offers any peremptory defence againft the debt, incurs a pafive title ; for he can have no interefl to object againf it, but in the charater of heir. In the fame manner, the heir's not renouncing upon a charge to enter heir, infers it : But the effect of both thefe is limited to the Special debt purfued for, or charged upon. This paffive title, which is inferred from the heir's not renouncing, has no effect till decree pafs againft him; and even a renunciation offered after decree, if the decree be in abfence, will entitle the heir to a fufperfion of all diligence againft his perfon and eftate, competent upon his anceftor's debts.
37. By the principles of the feudal law, an heir, then he is to complete his titles by fpecial fervice, muft neceffarily pafs over his immediate ancelior, e. g. his father, if he was not infeft ; and ferve heir to that anceftor who was laft velt and feized in the right, and in :whofe hareditatis jacens the right muft remain, till a title be connected thereto from him. As this bore hard upon creditors who might think themfelves fecure in contracting with a perfon whom they faw for fome time in the poffeffion of an eftate, and from thence concluded that it was legally vefted in him ; it is therefore provided by act 1695 , that every perfon, pafing over his immediatc anceftor who had been three years in poffeffion, and ferving heir to one more remote, thall be liable for the debts and deeds of the perfor isterjected, to the value of the effate to which he is ferved. This being correctory of the feudal maxims, has been Arictly interpreted, fo as not to extend to the gratuitous deeds of the perfon interjected, nor to the cafe where the interjected perfon was a naked far, and pofeffed only civilly throngh the liferenter.
38. Our law, from its jealoufy of the weaknefs of mankind while under ficknefs, and of the importunity of friends on that occafion, has declared that all deeds affecting heritage, if they be granted by a perfon on deathbed, (i. e. afier contacting that ficknefs which ends in death), to the damage of the heir, are ineffectual, except where the debts of the granter have laid him under a neceflity to alien his lands. As this law of deathbed is fourded folely in the privilege of the heir, deathbed deeds, when confented to by the heir, are not reducible. The term properly cppofed to deathhed is liege pouflie, by which is undertood a flate of health; and it gets the name, becaufe perfons in
health have the legitima pose,fas, or lawful power, of difpofing of their property at pleafure.

Law of
39. The two extremes being proved, of the granter's $\underbrace{\text { Son }}_{\text {Wha: ean- }}$ ficknefs immediately before figning, and of his death nitutes ${ }^{\text {a }}$ following it, though at the greateit diflance of time, deathbed did, by our former law, found a prefumption that the deed. deed was granted on deathbed, which could not have been elided but by a pofitive proof of the granter's convalefcence; but now the allegation of deathbed is alfo excluded, by his having lived 60 days after figning the deed. The legal cridence of convalafeence is the granter's having been, after the date of the deed, at kirk $O R$ market unfupported; for a proof of either will fecure the deed from challenge. The going to kirk or market mult be performed when the people are met together in the church or churchyard for any public meeting, civil or ecclefinflical, or in the market place at the time of public market. No other proof of convalefcence is receivable, becaule at kirk and market there are always prefent unfufpected witnefles, which we can hardly be fure of in any other cate.
40. The privilege of fetting afide deeds cx capite To what leafi, is competent to all heirs, not to heirs of line only, heirs shis but of conqueft, tailzie, or provifion; not only to the reduction is immediate, but to remoter heirs, as foon as the fucceffion opens to them. But, where it is confented to or ratified by the immediate heir, it is fecured againft all challenge, even from the remoter. Yet the immediate heir carnot, by any antecedent writing, renouace his right of reduation, and thereby give ftrength to deeds that may be afterisards granted in lecto to lis hurt ; for no p:ivate remunciation can authorize a perfon to act contrary to a public law; and fuch renunciation is prefumed to be extorted througle the fear of exheredation. If the heir fhould not ufe this privilege of redusion, his creditor may, by adjudication, tranffer it to himfelf; or he may, without adjudication, reduce the deed, libelling upon his intereft as creditor to the heir: But the granter's creditors have no right to this privileze, is regard that the lax of deathbed was introduced, not in behalf of the granter himfelf, but of his heir.

4I. The law of deathbed frikes againg difoofitions What rights of every fubject to which the heir would have fucceed- may be fhus ed, or from which he would have had any benefit, had it not been fo difponed. Deathbed dreds granted in confequence of a full or proper obligation in liege pous. fie, are not fubject to reduction; hut, where the antecedent obligation is merely natural, they are reducible. By ftronger reafon, the deceafed cannot, by a deed merely voluntary, alter the nature of his eftate on deatlibed to the prejudice of his heir, fo as from heritable to make it moveable; but if he thould, in liege poufie, exclude his apparent heir, by an irrevocable tleed containing refervel faculties, the heir cannot be heard to quarrel the exercife of thefe faculties on deathbed.
4:. In a competition between the creditors of the decealed and of the heir, our law (act 1651) has jufly preferred the creditors of the dezeafd, as every man's ellate ought to be liable, in the firt place, for his own debt. But this prefereace is, by the thatute, limited to the cafe where the creditors of the deceafed have ufed diligence againt their debtor's ellate, within three years from his death; and therefore the heir's

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creditors may, aftet that period, affect it for their own payment. All difpofitions by an heir, of the anceltor's eftate, within a year after his death, are nuil, in fo far as they are hurtful to the creditors of the anceltor. This takes place, though thefe creditors thon'd have ured no diligence, and even where the difpolitions are granted after the year: It is thought they are ineffectual againtl the creditors of the deceafed who have uted difigence within the three years.
chaxi。

Moverb.e fucselfion l.y daw.

## Sect. XXI. Of Saccefion in Moucablcs.

r. In the fucceffion of moveable rights, it is an univerfal rule, that the next in degree to the deceafed (or next of kim) fucceeds to the whole; and if there are

Succer.an in now:ables by def aination.
two or more equally near, all of them fucceed by equal parte, withoui that prerogative, which takcs place in heritage, of the eldeft fon over the younger, or of males over females. Neither does the right of reprefentation (explained $N_{0}^{\circ}$ clvxx. 4.) obtain in the fuccelitom of moveables, except in the fingle care of a competition between the full blood and the ha!f blood; for a niece by the full blood will be preferred before a brother by the half blood, though the is by one degree more remote from the deceafed than her unele. Where the eftate of a perfon deceafed confifts partly of heritage, and pattly of moveables, the heir in the heriiage has no thare of the moveables, if there are others as near in degree to the deceafed as himfelf: But where the heir, in fuch cafe, finds it his interelt to renounce his exclufive claim to the heritage, and betake himfelf to his right as one of the next of kin, he may collate or communicate the heritage with the others, who in their turn mult collate the moveables with him; fo that the whole is throrrn into one mafe, and divided rqually among all of then. This doatrine bolds, not only in the line of defeendants, but of collaterals; for it was introduced, that the heir might in no cale be worfe thais the other next of kin.
2. One may fettle his moveable effate upon whom he pleafes, cxcluding the legal fucceffor, by a teftamost; which is a written declaration of what a perfon wills to be done with his movenble eftate after his death. No teflamentary deed is effectual till the death of the tellator; who may therefore revoke it at pleafure, or make a new one, by which the firft lofes its force, accurding to the rule, voluntas tefatoris iff ambulatoria ufque ad mortem; and hence tellaments are called laft or later wills. Teltaments, in their frict acceptation, muft contain a nomination of execuitors, i. e. of perfons appoimed to adminifter the fucceffion accorting to the will of the deceafed: Yet nothing hinders one from making a fettlement of moveables, in favour of an univerfal legatee, though he thould not have appointed executors; and on the other part, a teftament where executors are appoinied is valid, though the perfus who is to lave the right of fucceffion flould not be named. In this laft cafe, if the exccutor nomimated be a Atranger, i. e. one who bas no legal interedt in the morcabie ciftate, he is meerly a truflee, accountable to the neat of kin; but he inay ret in a third of the dead's part (explained par. 6.) for his trouble in executing the teflament; in payment of which, lega-
cies, if any be left to hime, rauf be imputed. The heir, if he be named executor, has right to $t^{\prime}$ : third as a firanger; but if one be named who has an interelt in the legal fuccetfion, he has no allowance, unlefs fuch intereft be lefs than a third. Nuncupative or verbal teflaments are not, by the lax of Scotland, effectual for fupporting the nomination of an executor, let the fuinject of the luccelifion be ever fo fimall: But verbal legacies, not exceeding rool. Scots, are fultained: and even where they are granted for more, they are ineffeaual only as to the excefs.
3. A legacy is a donation by the deceafed, to be Legacy. paid by the executor to the legatee. It may be granted eitlier in the teflament or in a feparate writing. Legacies are not due till the granter's death; and confequently they can traufmit no right to the executors of the legatee, in the event that the granter furvives him. A cafe occurred fonne years ago, where a teltator left a legacy payable whin the legatee arrived at a certain age. The legatee furvived the teftator, but died before the legacy was payable. It was found, chiefly upon the aurhority of the Roman law, that the legacy velted in the legatee à morte teflatoris, and upon his deceafe was due to the legatee's next of Lin.
4. Legacies, where they are general, i. e. of a certain fum of money indefinitely, give the legatee no right in any one debt or fubject ; he can only infitt in a perfonal action againf the executor for payment out of the teffator's effects. A fpecial legacy, i. e. of a particuiar dibt due to the deceaied, or of a particular fubject belonging to him, is of the nature of an alfignation, by which the property of the fpecial debt or fulj ject velts, upon the teltator's death, in the legatee, who can therefore direcily fue the debtor or poffeflor: Yct as no legacy can be claimed till the devts are paid, the executor mult be cited in fuch procefs, that it may be known, whether there are free effiects fufficient for anfivering the legacy. Where there is not enough for payment of all the legacies, each of the general legatees muff fuffier a proportional abatement: Burt a fpecial legatee gets his legacy entire, though there hould. be nothing over for payment of the reft; and, on the contrary, he has no ciaim, if the deat or fubject. bequeathed ihould perilh, whatevcr the extent of the free executry may be.
5. Ninors, afier puberty, can telt without their cu- Tho can rators, wives without their huibands, and perfons in- - lef, ander what terdicted without their interdictors: but baltards can- retter what not teft, except in the cafes afterwards fet forth, $\mathbb{N}^{0}$ clexii. 3. As a certain thare of the goods, falling under the communion that is confequunt on marriage, belongs, upon the hulband's deceafe, to his widow, jure reliktue, and a certain hare to the children, called the legitime, purtion natural, or lairns part of gcar; one who has a wife or children, though he be the abfolute adminiffrator of all thofe goods during his life, and confequently may alien them by a deed inter vizos, in liege porfie, even gratuitoully, if no fraudulent intention to dilappoint the wife or children thall appear, yet cannot impair their fares rratuitoully on deathbed: nor can he difpofe of his moveables to their prejudice by teftament, though it fhould be made in liçe porflie; finco teltaments do not operate sill the death of the tellator,

L $A$ at which period the divifion of ti.e goud, i: commanion have their full effeak in favour of the widu:v and chindren.
6. If a perfon deceafed leaves a wilow, but no child, his teltament, or, in other words, the goods in commanion, divide in two : one half goes to the widow: the other is the dead's part, i. e. the ablolute property of the deceafed, o: which he can teft, and which falls to his next of kin, if he dies intelfatc. Where he leaves children, one or more, but no widow, the children get one half as their legitime : the other half is the dead's part; wrlich falls alfo to the children, if the father has not tefted upon it. If he leaves both widow and chisden, the divifion is tripartite : the wife takes one third by herfelf; another falls, as legitime, to the children equally among them, or even to an only child, though he thoull facceed to the heritage; the remaining third is the cend's part. Where the wifc predeceales without children, one half is retained by the hufband, the other falls to her next of kin: Whacre the leares chisldren, the divilion ought alfo to be bipartite, by the common rules of fociety, fince no legitime is truly due on :a mother's death: yet it is in practice tripartite; two thirds remain with the furviving father, as if onethind were due to him proprio nomine, anal another as adminill rator of the legitime for his children; the remaining third, being the wife's flare, goes to her children, whether of that or any former marriage ; for they are all equally her next of kin. ing by the deceafed are to be deducted; for all executry mult be free. As the hußbind has the full power of burdening the goads in commurion, his debts affect the whole, and folelien the legitine and the fla:re of the reitet, as well as the dead's part. His funeral $c^{\text {hargec, }}$ and the mournings and alimony due to the widow, are conlidered as his proper debts; but the legacies, or other gratuitous rights granted by hin on deathbed, afiect only the dead's part. Bonds bearing intereff, due by the deceafed, cannot diminitl the reliet's fhare, becaute fuch bonds, when due to the deceafed, do not increale it. The funeral charges of the wife predeceafing, fall whe!ly on her executors who have right to her thase. Where the deceafed leaves no family, neither huildand. wife, nor child, the teftament fufiers no divition, but all is the dead's past.
8. The whole illue of the hufband, not only by that marriage which was diflolved by his death, but by any furmer marriage, has an equal intereft ia the lesitime; otherwife the children of the firit marriage would be cut out, as they could not claim the legitine during their father's life. But no legitime is due, (r.) Upon the death of a mother. (2.) Neither is it due to grondcliildren, upon the death of a grandfather. Nor, (3.) So children forisfamiliated, i. e. to fich as, by having renouncard the legitime, are no longer confidered as in fomilia, and fo are excluded fro:n any farther thare of the moveable eflate than they have already received.
9. As the right in legitime is ftrongly founded in nature, the remunciation of it is not to be inferred by implication. Renunciation by a child of lis claim of legitime las the fame effeat as his death, in favour of the cther cliilden entitled theren; and confequently the thare of the renauncer divides amone the rell; lut be does nct thereby lofe his right to the dead's y'at:, if
he dees not alfo reriuance his fante in the ratica'sen cutres 1
 he is the only younger child, has the effer to convert the whole fuljeat thereof into dead's part, which will therefure fall to the re:ounser limelf as nex: of kin, if the heir be not willing to collate the heriage with him. Yet it las beenfound that the rerimiaiation of the only younger child made the whole legitime accrue to the heir without collation.
10. For preferving an equality among all the chil-Collation dren who continue entitled to the legitine, we have among adopted the Roman doctrine of culiati, honorisa, younge: whereby the child, who has got a provition fiom his father, is obliged to collate it with the others, and impute it towards his own hare of the legitime; but if from the deed of provition, the father thall appear to have intended it as a procipumn to the child, collation is excluded. A child is not bound to coliate an heritable fubject provided to lim, becaule the legitime is not impaired by fuch prowiion. As this collation takes place only in queftions anong children who are entitud to the legitime, the reliit is not bound to collate donations given her by her hutband, in order to increafe the legitime ; and on the other part, the children are not obliged to collate their provifions, in order to increafe her thare.

1I. As an heir in heritage mur complete lis titlesConfma-by entry, fo an executor is lut vefied in the right of the tion. moveable eftate of the deceafed without confirmatio:!. Confirmation is a fentence of the commilfary or bilhop's court, empowering an executor, one or more, upon maliing inventury of the moveables pertaining to the deceafed, to recover, pollefs, and adminiller them, either in behalf of themfelves, or of others interefted therein. Teltameats mult be confirmed in the commilatiot where the deceated had his principal dwelling hoafe at his death. If he had no fixed relidence, o: died in a foreign country, the confirmation mult be at Edinhurrgi, as the commune forum; but if he wenc abood with an intention to return, the commifariot witlin which he refided before he left Scotland, is the only proper court.
12. Confirmation pioceeds upon an edict, which is alfixed on the door of the parilla church where the deceafed dwelt, and ferves to intimate to a?l concerned the day of confirmation, which mult be nine deys a: Lealt atter publinhing the edict, In a competition for the office of executor, the commillaty prefers, primo loco, the perfon named to it by the deceafed hinifelf, whofe nomination he ratifies or confirms, without ayy previous decerniture : this is called the consimation of a teflament teftamentary. In default of an executor nanted ty the deceafed, univerfal difponees are by the prefent pradice preferred; after them the next of kin; then the relift ; then creditors; and, latly, frecial legatces. All thefe mur le decerned executurs, by a fentence called a decre-datize; and if stitrwards they incline to confirm, the commibary authuizes them to adminifter, bi,on their making inventory, and giving fecurity to make the fubpet thereof forthcoming to all having intercelt which is calied the confrmation of a tellament dative.
13. A credion, whofe debtor"s tet? ament is already Confirtazronfirmed, may fue the exceutor, who heids the office ton 4. ma anfor a!l concerned, to make pryment of ine tab:. Whereotiour
tlare

Law of ficc:land.

Where is $n$, confination, he himelele may apply for the ofice, and confrm as executor-creditor ; which entitles him to fue for and receive the fubject confrimed, for his own payment : and where one applies for a confirmation as exscutor-seditor, every co-creditor may apply to be conjoined with him in the office. As this kind of confirmation is fimply a form of diligence, creditors are exempted from the neceffity of confirming more than the amount of their debts.

1 4. A creditor, whofe debt has not been conffituted or his claim not clofed by decree, during the life of his debior, has no title to denand directly the office of executor qua creditor: but he may charge the neat of 1 in who ftands off, to confirm, who mult either renounce within twenty days after the charge, or be liable for the debt; and if the next of kin renounces, the purfuer may conftitute his debt, and obtain a decree cognitionis coufa, againt the hereditas jacens of the moveables, upon which he may confirm as executor-creditor to the decealed. Where one is creditor, not to the deceafed, but to his nesst of kin who flands off from confirming, he may affect the moveables of the deceafed, by obtaining himfelf decerned executor-dative to the deceafed; as if he were creditor to him, and not to his next of kin.

Conifme-
15. Where an executor has either omitted to give up any of the eifeets belonging to the deceafed in inventory, or has eftimated them below their juft value, there is place for a new confirmation, ad omiffa, vel male appretiata, at the fuit of any having intereft: and if it appears that he has not omitted or undervalued any fubject dolose, the commiffary will ordain the fubjects omitted, or the difiference between the eftimations in the principal teftament and ibe true values, to be added thereto; buit if dole thall be prefumed, the whole fubjeat of the teftament ad omifo vel male anporctiata, will be carred to him who confirms it, to the exclufion of the exccutor in the primcipal tefament.
16. The legitime and relict's fhare, becaufe they are rights ariing ov lege, operate ipfo jure, upons the father's death, in tavour of the reliat an 1 children; and confequently pafs from them, though they thould die before coiffirmation, to their next of kin : whereas the dead's part, which falls to the children or other next of kia in the way of fucceffion, remains, if thcy thould die before confirming, in bonis of the fritt deceafed ; and fo docs noi defcend to their next of kin, but may be confirmed by the perfon who, at the time of confrmation, is the next of kin to the frif deceafed. Special allignations, though neither intimated nor made public during the life of the granter, carry to the aflignee the full right of the fubjects affigned, without confirmation. Special legacles are really affignations, and fo fall under this rulc. The next of kin , by the bare poffeffion of the iofa corpora of moveables, acquires the property thereof without confirmation, and tranfmits it to his execurots.
Partial con- 17. The confirmaticn of any one fubject by the next smation. of kin, as it proves his right of blood, has been adjudged to carsy the whole executry out of the teftament of the deccafed, even what was omitted, and to tranfinit all to this own executors. The confirmation of a firanger, who is executor nominated, as it is merely a trult for the nex: of kin, has the effect to erablinh the rioch: of the next of kin to the fubje as
connimed, in the fame manner as if himfelf had con- Law, firmed them.
18. Executry, though it carries a certain degree of Executc reprefertation of the deceafed, is properly an ofice : hrow far executors therefore are not fubjefted to the debis due liable. by the deceafed, beyond the value of the inventory; but, at the fame time, they are liable in diligence for making the inventory effectual to all having interef. An executor-creditor who confirms more than his debt amounts to, is liable in oiligence for what he confirms. Executors are not liable in intere!t, even upon fuch bonds recovered by them as carried interelt to the deceafed, becaufe their office obliges them to retain the fums they have made effectual, in order to a diftribution thereof among all having intereft. This holds though they fhould again lend out the money upon intereft, as they do it at their own rilk.
19. There are certain debts of the deceafed called In what privileged debts, which were always preferable to every cafes the other. Under that name are comprehended, medicines may pay furnified to the deceafed on deathbed, phyficians fees fentence during that period, funeral charges, and the rent of his houfe, and his fervants wages for the year or term current at his death. Thefe the executors are in fafety to pay on demand. All the other creditors, who either obtain thenfelves confirmed, or who cite the executor already confrrsed, within fix months after their debtor's death, are preferred, pari pafiu, with thofe who $t$ ave done more timely diligence; and therefore no executor can either retain for his own debt, or pay a teftamentary debt, fo as to exclude any creditor, who fhall ufe diligence within the fix months, from the benefit of the pari paffu preference; neither can a decree fo: payment of debt be obtaincd, in that period, againf an executor, becaufe, till that term be elapfed, it cannot be known how many creditors raay be entitled to the fund in his hands. If no diligence be ufed within the fix monthe, the executor may retain for his own debt, and pay the refidue primo venienti. Such creditors of the deceafed as have ufed diligence within a year after their debtor's death, are preferable on the fubjeet of bis tefament io the creditors of his next oz lin.
20. The only paffive title in moveables is vitious in- Vitious z . tromiffion; which may be defined, an unwarıantable intermeddling with the moveable eflate of a perfon deceafed, without the order of law. This is not confined, as the pallive titles in heritage are, to the perfons interefted in the fucceffion, but frikes againf all intromitters whatever. Where an executor confirmed intromits with more than he has confirmed, be incurs a pafive title; fraud being in the common cafe prefumed from his not giving up in inventory the full fubject interneddled with. Vitious intromifion is alfo prefumed, where the repofitories of a dying perfon are noe fealed up, as foon as he becomes incapable of fenfe, by his neareft relations; cr, if he dies in a houfe not his own, they mult be fealed by the mafter of fuch houfe, and the keys delivered to the judge ordinary, to be hept by him, for the benefit of all having itstereft.

2I. The paffive title of vitious intromiffion does not take place whicre there is any probable ritle or circumflance that takes off the prefumption of fraud. In confequence of this rule, neceflary intromiffion, or cuffodice
$2 w$ of caufa, by the wife or children, who only continue the poffeltion of the deceafed, in order to preferve his goods for the benefit of all concerned, infers no palive title. And, upon the fame principle, an intromitter, by conirming himfelf executor, and thereby fubjecting himfelf to accomnt, before action be brought againft him on the pallire titles, purges the vitiolity of his prior intromilfion: and where the intromitter is one who is interefted in the fucceffion, e. g. next of kin, his confirmation, at any time within a year from the death of the deceafed, will exclude the pallive title, notwithflanding a prior citation. As this pafive title was intended only fo: the fecurity of creditors, it cannot be fued upun by legatees; and fince it arifes ex delisto, it cannot be pleaded againit the heir of the intromitter. As in delicts, any one of many delinquents may be fubjected to the whole punifhment, fo any one of many intromitters may be fued in fulidum for the purfuer's debt, without calling the reft; but the intromitter who pays, has an action of relief againtt the orhers for theis thare of it. If the intromitters are fued jointly, they are liable, not pro rata of their feveral intromilions, but pro virili.
22. The whole of a debtor's eftate is fubjected to the betwist payment of his cebis; and therefore, botl2 his heirs and xecutors are liable for them, in a riseftion with creditors: but a fucceltion is by law divided ints the heritable and the moveable eitate, each of thele ought, in a queftion between the feveral fucceffors, to bear the burdens which naturally affect it. Action of relief is accordingly competent to the heir who has paid a moveable debt, againft the executor; and rice qeerfa. This relicf is not cut off by the doceafed's having difponed either his land eltate or his moveables, with the burden of his whole debis; for fuch burden is not to be contrued as an alteration of the legal fucceflion, but merely as a farther fecurity to-creditors, unlefs the contrary fhall be prefumed from the fpecial ityle of the difpofition.

## IV. OF LAST HEIRS AND BASTARDS.

r. By our ancient practice, feudal grants taken to the vafial, and to a fpecial order of heirs, without fettling the lalt termination upon heirs whatfoever, returned to the fuperior, upon failure of the fpecial heirs therein contained : but now that feus are become patrimonial





 both in the heritable and moveable cftate of the deceafed, in confequence of the role, शuot nulius eff, cc. dit domino Regi.
2. If the lands to which the king fucceeds be holden immediately of himfelf, the property is confolidated with the fuperiority, as if refignation had been made in the fovereign's hand. If they are holden of a fubiect, the king, who cannot be vaffal to his own Subject, names a donatury; who, to cumplete his title, mult obtain a decree of declaratozy; and thereaiter he is prefented to the fuperior, by letters of prefentation fom the king under the quarter ?eal, in which the fupe-
rior is charged to enter the duantory: The whole e 7...ec of the deceafed is, in this cafe, fabject to his debts, a.n」 to the widuw's legal provinons. Neither the king :lu: his donatory is liable beyond the value of the fuccellion.














































 yeas after incurriag the irritancy, fign the formula preforibed by the ftatute 1700, c. 3 .

Chap. III. Of Actipns.
Hitherto of Perfons, and Rigits, tise two firft o., jects of law : Alions ane its thirdoujet, whereby $t^{7 n}$ : fons make their rights elkectual.

Sect. I. Nature, Divizon, dece if Act 3r, S.


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 rights;


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#### Abstract

$\rightarrow$ 6


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Law ui
Scetland.
Eivifon or aitions.
taming or recoverins of a right; and it fuffers feveral disifions, according to the different natures of the rights purfued upon.
2. Actions are cither real or perfonal. A real action is that which arifes from a light in the thing itfelf, and which therefore mas be directed againft all poficifors of that thing: thus, an action for the recovery, even of a moveable fubject, when founded on a jus in re, is in the proper acceptation real; but real actions are, in vulgar fpecch, confined to fucla as are directed againft heritable fubjects. A perfonal action is founded only on an obligation undertaken for the performance of fome fact, or the delivery of fome fubject; and therefore can be carried on againft no other than the ferfon obliged, or his heirs.
3. Actions, again, are either ordinary or refcifory. All actions are, in the fenfe of this divilion, ordinary, which are not refcifiory. Refcifiory actions are divided, (1.) Into actions of proper improbation. (2.) Actions of reduction-iurprobation. (3.) Actions of
fimple reduction. Proper insprobations, which are brought for declaring writings falfe or forged, are noticed below, $\mathrm{N}^{\circ}$ clwxwi. 32. Reduction-improbation
is an action, whereby a perfon who may be hurt or affected by a writing, infifts for producing or exhibiting it in court, in order to have it fet afide, or its effect afcertained, under the certification that the writing, if not produced, fhall be declared falfe and forged. This certification is a fiction of law, introduced that the production of writings may be more effectually forced, and therefore it operates only in favour of the purfuer. Becaufe the fummons in the action proceeds on alleged grounds of falfehood, his majefty"s advocate, who is the public profecutor of crimes, muft concur in it.
4. As the certification in this procefs draws after it fo heavy confequences, two terms are affigned to the defenders for production. After the fecond term is claffed, intimation mul be made judicially to the deender, to fatisfy the produdion within ten days; and till thefe are expired, no certification can be pronounced. Certifcation cannot pafs againft deeds recorded in the books of felfion, if the defender Mrall, before the fecond term, offier a condefcendence of the dates of their regiftration, inllefs falfehood be object. cd: in which cafe, the original muft be brought from the record to the coust. But an extract from the inferior count is no bar to certification; the principal writing mult be laid before the court of feffion on a proper warrant.
5. In an action of fimple reduction the certification

Simple resuction.

Gravils uf redmetion. is only temporary, declaring the writings called for nu!], until they be produced; fo that they recover their fuil force after production, even againt the purfuer hinfelf; for which reafon, that procefs is now felcom ufed. Becaufe its certification is not fo fevere as in redution-improbation, there is Luit one teran aff:onad to the defender for producing the deed, calied for,
(6. 'The moft ufual grounds of reduction of writings are, thic want of the :cquint folemnities; that the granter was minor, or imtcrdiofed, or irhibited; or that he fogned the decd on deathbed, or was compel'ed or friphtened into it, or was circumented; or that he granted it in prejusice of his lasful creditors.
7. In refuitions 0:: the head of force, or flar, or
fraud and circumvention, the purfuer muft libel the particular circumftances from which his allegation is to be proved. Reduction is not competent upon every degree of force or fear; it muft be fuch as would hake a man of conflancy and refolution. Neither is it competent, on that fear which arifes irom the juf authority of hufbands or parents, over lheir wives or childrew, nor upon the fear arifing from the regular execution of lawful diligence by caption, provided the deeds granted under that fear relate to the ground of debt contained in the diligence; but if they have no relation to that debt, they are reducible ex metu.
8. Alienations granted by debtors after contracting of lawful debts, in favour of conjunct or confident perfons, without juft and neceffary caules, and without a juit price really paid, are, by the act 1621 , declared to be null. One is deemed a prior creditor, whofe ground of debt exifted before the right granted by the debtor; thongh the written voucher of the debt thould bear a date pofterior to it. Perfons are accounted conjunct, whofe relation to the granter is fo near, as to bar them from judging in his caufe. Confident perfons are thofe whe appear to be in the granter's confidence, by being employed in his affairs or about his perfon; as a doer, fleward, or domeftic fervav:.
9. Righte, though gratuitous, are not reducible, if the granter had, at the date thereof, a fufficient fund for the payment of his creditors. Provifions to children are, in the judgement of law, gratuitous; fo that their effect, in a quaftion with creditors, depends on the folvency of the granter; but fettlements to wives, either in marriage contracts, or even after marriage, are onerous, in fo far as they are rational ; and confequently are not reducible, even though the granter was infolvent. This rule holds alfo in rational tochers contracted to hufbands: Bu: it muft, in all cafes, be qualified with this limitation, if the infulvency of she granter was nos publicly known; for if it was, fraud is prefumed in the receiver of the right, by contracting with the bankrupt.
10. The receiver of the deed, if he be a conjunet or confident perfon, muft inftruct or fupport the onerous caufe of his right, not merely by his orm oath, but by fome circumitances or adminicles. But where a right is granted to a ftranger, the narrative of it exprefing an onerous cat:fe, is fufficient per fe to fecure it againt reduction.
II. All voluntary payments or rights made by a bankrupt to one creditor, to difappoint the more timorous diligence of another, are reducible at the inflance of that creditor who has ufed the prior diligence. A creditor, though his diligence be but begun by citation, may infift in a red:ction of all pofterior voluntary rights granted to his prejudice; but the creditor who neglects to complete his begun diligence within a reafonable time, is not entitled to reduce any right granted by the debtor, after the time that the diligence is conlidered as abandoned.
12. A protibited alienation, when conveqed by the receiver to another who is not privy to the fraud, fubfilts in the perfon of the lone fide purchafer. In the cafe of moreable righte, 1 i. nullity is reccivable by ex. ception; but it nult be doclared by zeduction, where
the right is heritable.
${ }^{1}$ §. B
13. By aet 1696 , c. 5. all slienations by a bankrupt, within 60 days before his bankruptcy, to one creditor in preference to another, are reducible, at the inftance even of fuch coccreditors as had not ufed the leaft ttep of diligence. A bankrupt is there defcribed by the following characters; diligence ufed againft him by horning and caption ; and infolvency, joined either with imptifonment, retiring to the fanctuary, abfonding, or forcibly defending himfelf from diligence. It is fufficient that a caption is raifed againft the debtor, though it be not executed, provided he has retired to fhun it. And by the late banksupt Atatute 2 2d Geo. III. it is declared, that in all ations and queftions arifing upon the conflruction and effect of the act 16 g 6 ; when a debtor is out of Scotland, or not liable to be imprifoned by reafon of privilege or perfonal protection, a charge of horning executed againft him, together with either an arreftment of any of his perfonal effects not loofed or difcharged within fifteen days, or a poinding executed of any of his moveables, or a decree of adjudication of any part of his heritable eflate, or fequeltration by the act of a proper court, of all or any part of his eftate or effects, heritable or moveable, for payment of debt, fall, when joined with infolvency, be held as fufficient proof of notour bankruptcy; and from and after the laft ftep of fuch diligence, the faid debtor, if infolvent, thall be held bankrupt. It is provided (by faid aet 1696), that all heritable bonds or rights on which feifin may follow, fhall be reckoned, in a queftion with the granter's other creditors upon this act, to be of the date of the feifn following thereon. But this act was found to relate only to lecurities for former debts, and not to nore debita.

## ions ei-

14. Actions are divided into rei perfecutorice, and payales. By the firft, the purfuer infifts barely to recover the fubject that is his, or the debt due to him : and this includes the damage fuftained; for one is as truly a fufferer in his patrimonial intereft by that damage, as by the lofs of the fu'jeet itfelf. In penal actions, which always arife ex delicto, fomething is alfo demanded by way of penalty.
15. Actions of fpuilzie, ejection, and intrufion, are penal. An attion of fpuizze is competent to one difpofieffed of a moveable fubject violently, or without urder of law, againft the perfon difpoffefling: not only for being reflored to the poffeffion of the fubject, if exiant, or for the value, if it be deftroyed, but allo for the violent profits, in cafe the action be brought within threc years from the fpoliation. Ejection and intrufion are, in heritable fubjects, what fpuilzie is in moveables. The diference between the two firft is, that in cjection, violence is ufed; whereas the intruder enters into the void poffelfion, without either a title from the proprictor, or the warrant of a judge. The actions ariling from all the three are of the fame general nature.
16. The action of contravention of law-burrows is charge g, a cautor), whe co a fecurity not to hurt the complainer in his perfon, family, or eftate. Thefe letiers do not require the previous citation of the party complained upon, becaufe the caution which the law renuires is only for doing Vol. XI. Part II.
what is every man's duty; but, before the letters are executed againf him, the conplainer muft make oath that he dreads bodily harm from him. 'The penalty of contravention is afcertained to a fpecial fum, according to the offender's quality; the half to be applied to the fifk, and the half to the complainer. Contravention is not incurred by the uttering of reproachful words, where they are not accompanied, either with acts of violence, or at leatt a real injury; and as the action is penal, it is elided by any probable ground of excule.
17. Penalties are the confequences of delict, or Penal actranfgrefion; and as no heir ought to be accountable ther tranf. for the delict of his anceflor, farther than the injured milfible aperfon has really fuffered by it, penal actions die with gainf the the delinquent, and are not tranfmifible againt heirs. purfuer. Yet the action, if it has been conmenced and litifsontefled in the delinquent's lifetime, may be continued again!t the heir, though the delinquent fhould die during the dependence. Some actions are rei perfecutorice on the part of the purfuer, when he infifts for fimple rellitution; which yet may be penal in refpect of the defender: e.g. the action on the paflive title of itious intromifion, by which the purfuer frequently recovers the debt due to him by the deceafed, though it fhould exceed the value of the goods intermeddled with by the defenders.
18. The moft celebrated divifon of actions in our Actionspelaw is into pectiory, poffellory, and declaraiory. Petitory titary, and actions are thofe, where fomething is demanded from the defender, in confequence of a right of property, or of credit in the purfuer: Thus, actions for reflitution of moveables, actions of poinding, of forthcoming, and indeed all perfonal actions upon contracts or quaficontracts, are petitory. Pofffory actions are thofe pofeffory. which are founded, either upon pofiefion alone, as〔puilzies; or upon poffefion joined with another title, as removings; and they are competent either for gettirig into poffeflion, for holding it, or for recowering it; analogous to the iuterdiĉ, of the Roma: law, guorum bonorum, utipghfidet's, and unde ivi.
19. An action of molettation is a poffefory action, Of moleftacompetent to the proprietor of a land efate, againf thafe who difturb his poffeftion. It is chiefy ufed in queftions of commonty. or of con:troverted marches. Whiere a declarator of froperty is corjjuined with a procefs of molettation, the feffion alore is competeat to the action. Actions on brieses of perambalation, have the fane tendency with moleflations, viz. the fettling of marches between conterminous lands.
20. The action of mails and duties is fonetimes Ofmails petitory, and fometimes poffefiory, la either cafe, it and duties is directed againt the terants and natural poffeffors of land eftates, for payment to the purfuer of the rents remaining due by then for paft crops, and of the full rent for the future. It is competent, not only to a proprietor whofe iight is perfected by feilm, but to a limple difponee, for a difpofition of lands includes a right to the mails and dutics; and confequently to an adjudger, for an adjudication is a judicial difpofition. In the petinry action, the purfuer, fince hic fuunds Pecitory. upon the right, not pofieflion, null make the fropictor, from whom the tenants derive their right, farty to the fuit; and he mult fupport his clam by titles of proferty or diligences, preferable to thofe in the perion $+5$ of

Law of Scatlard.

Poneflory.

Yofiefory judgement.
of his competitor. In the folieflory, the purfuer who libels that he, his ancefors, or authors, have been feven years in pofittlion, and that therefore he has the benefit of a pofitfory judgement, need produce no other litie thern a feifin, which is a title fufficient to make the pofiefion of heritage lawfal; and it is enough, if Fe calls the natural porieffors, though he thould neglect the proprietor. A poifffory judgenent founded on feven years poffeffion, in confequence either of a feiin or a tack, has this effect, that thotgh one fhould claim under a title preferable to that of the pofieitior, he cannot compete with him in the poifeffion, till in a formal procefs of reduction he farll obtain the poffeffor's titie declared void.
Declare-
21. A decharctory action is that, in which fome right is craved to be declared in favour of the purfuer, but nothing fought to be paid or performed by the defendcr, fuch as declarators of martiase, of irritancy, of cxpiry of the legal reverfion, Exc. Under this ciafs may be alfo comprehended refciaory actions, whech without any perfonal conclufion againt the defender, tend fimply to fet afide the righse or writines libelled, in confequence of which a contrary right or immunity arifes to the purfuer. Decrees upon attions that are properly declaratory confer no new right; they only declere what was the purfuer's right before, and fo have a retrofpect to the period at which that right firt commenced. Declarators, becaufe they have no per'onal conclufion againf the defender, may be parfued ayainft an apparent heir without a previous charge given him to enter to his anceflor ; unlefs where fpecial circumflances require a charge.
22. An astion for proving the tenor, whereby a writing, which is oeftroyed or amifling, is endeavoured to he revived, is in effeet declaratory. In obligations that are extinguifiable barcly by the debior's retiring or cancelling them, the purfuer, before a proof of the tenor is admitted, mult condefcend on fuch a cofus amiffionis, or accident by which the writing was deftroyed, as thows it was loft when in the creditor's poffefion; otherwife honds that have been cancelled by the debtor on payment, might be reared up as ftill fubfifting asaint him: But in writings which require contrary deeds to extinguifh their effect, as aflynations, difpofitions, chatters, \& c. it is fufficient to libel that they were lank, even cafu forticito.
Adminites
23. Regularly no deed can be revived by this a ation, without fome adminicle in writing, referring to that which is libelled: for no written obligation ought to be raifed up barely on the tellimony of witneffes. If thefe adminicles afford fufficient conviction that the deed libelled did once exill, the tenor is admitted to be proved by witneffes, wlo muft depofe, either that they were prefent at figning the dued, or that they atherwards law it duly fubferibed. Where the relative writings contain all the fubtantial claufes of that which is lf ft, the tenor is fometimes fuftained without witneffer. In a writing which is libelled to have contained uncommon claufss, all thefe mult appear by the adminicles. Actions of proving the tenor are, on account of their importasice, approp riated to the court of feflion; ard, by the old form, the teflimony of the winnfles could not be received but in prefence of all the jurgers.
24. The action of double or multiple-poinding may
be allo reckoned declaratory. It is competent to a debtor, who is diffreffed, or threatened with diffrefs, by two or more perfons claiming right to the debt, and who therefore brings the feveral claimants into the field, in order to debate and fetle their feveral preferences, that fo he may pay fecurely to him whofe right fhall be found preferable. This action is daily purfued by an arreftee, in the cafe of feveral arreftments ufed in tis hands for the fame debt; or by tenants in the cafe of feveral adjudteres, all of whom claim right to the fame ren:s. In thefe competitions, any of the conpetitors may bring an action of multiple-poinding in name of the tenants, or other debtors, without their confent, or exen though they fhould difclaim the procefs; fince the law has introduced it as the proper remedy for getting fuch competiions determined: And while the fubject in controverfy continues in medio, any third ferfon who conceives he has a right to it, may, though he thould not be cited as a defender, produce his titles, as if he were an original party to the fuit, and will be admitted for his interef in the competition. By the forefaid bankrupt flatute, however, it is competent. in the cafe of a forthcoming or multiple-poinding raifed on an arrellment ufed within thirty dars prior, or four kalendar months fubfequent, to a bankruptcy, for any other creditor producing his interea, and making his claim, in the procefs at any time before the expiration of the four months, to be ranked in the fame manner as if he had ufed the form of arreftment.

25 . Certain actions may be calied accefory, becaufe Acceño they are merely preparatory or fubfervient to other ac- actions tions. Thus, exhibitions $n \frac{1}{}$ deliberandum, at the in. flance of an heir againlt the creditors or cultodiers of his anceftor's writinge, are intended only to pare the way for futu:e proceffes. An a ation of iransference is Transfe alfo of this Cort, whereby an action, during the pen-ence. dency of which the defender happens to die, is craved to be transferred againf his reprefentatise, in the fame condition in which it flood formerly. Upon the purfuer's death his heir may infilt in the caufe againft the defender, upon producing either a retour or a confirmed teftament, according as the fubject is beritable or moveable. 'Transferences being but incidental to other actions, can be pronounced by that inferior judge alone before whom the principal caufe depended; but where the reprefentatives of the deceafed live in another territory, it is the fupreme court mult transfer. Obligations may now be regiftered fummarily after the creditor's death; which before was not admitted, without a feparate procefs of regiftration, to which the granter was neceflarily to be made a party.
26. A procels of unkening is likewife acceffory. Wake An action is faid to flcep, when it lies over not infifted in for a year, in which cafe its effect is fufpended; but even then it may, at any time within the years of prefcription, be revived or wakened by a fummons, in which the purfuer recites the laft fep of the proceff, and concludes that it may be again carried on as if it had not been difcontinued. An action that ftands upon any of the inner-houfe rolls cannot fleep; nor an action in which decree is pronounced, becaufe it has got its fall completion : Conferquently the decree may be extracted after the year, without the nectlity of a wakening.
27. An action of tranfumpt falls under the fame Tran :
ave of clats. It is competent to thofe who hare a partial intereft in writings that are not in their own cuftode, againt the polfellors thereof, for exhibiting them, that they may be tranfumed for their belooof. Though the ordinary title in this procefs be an obligation by the defenler to grant trasfumpts to the purfuer, it is fufficient if the purfuer can thow that he has an intereft in the writings; but in this cafe, he muft tranfume them on his own charges. Actions of tranfumpt may be purfued before any judge-ordinary. After the writings to be tranfumed are exhibited, full duplicates are made out. collated, and figned, by one of the clerks of court, which are called iranfumpts, and are as effectual as an exiract from the regiller.
28. Actions proceeded anciently upon brieves iffuing from the chancery, directed to the jufticiary or judge-ordinary, who tried the matter by a jury, upon whofe verdict judgement was pronounced: And to this day we retain certain brieves, as of injuef, terce, idiastry, tutory, perambulation, and perhaps two or three otbers: But fummonfes were, immediately upon the inflitut:on of the college of juffice, introduced in the place of brieves. A fummons, whei applied to actions purfued before the feffion, is a writ in the king's name, infuing from lis fignet upon the purfuer's complaint, authorizing mefengers to cite the defender to appear before the court and make his defences, with certifcation, if he fail to appear, that decree will be pronounced againf him in terms of the certitication of the fummons.
29. The days indulged by law to a defender, hetween his citation and apnearance, to prepare for his amonies. defence are called inducie legales. If he is within the of appearauce, mult be allowed him for that purpofe; and if cut of it, 60 and 15 . Defenders refiding in Oakney or Zetland muft be cited on 40 days. In certain fummonfes which are privileged, the inducice are hortened: Sfuilzies and ejections procied on 15 days; wakenings and transferences, being but incidental, on fix ; (fee the litt of privileged fummonfec, in act of federunt June 29. 1672.) A fummons mult be executed, i. e. 「erved againt the defender, fo as the laft diet of appearance may be wi:hin a year after the date of the fummons; and it muft be called within a year after that diet, otherwife it falls for ever. Offence againt the authority of the court, a\&s of malverfation in office by any member of the college of junice, and acts of violence and oppreffion commitied during the dependence of a fuit by any of the parties, may be tried without a funmons, by a furmary complaint.
30. Though the Romans acknowledged a concourfe of actions in their proceedings, it is not known in the law of Scotland. Thercfore, where an action is in part penal, e. g. a removing, fpuilzie, \&\&c. a purfuer who reffricts his demand to, and obtains a decree merely for, refitu ion, çannot thereafter bring a new procefs for the violent profits. Yet the fame fact may be the toundation both of a criminal and civil ation, becaufe thefe two are intended for different purpofes; the one for fatisfying the public juftice, the other for indemniFying the private patty: And though the defender firould be ablaived in the criminal trial, for want of evidence, the puty injured may bring an action ad ci-
vilem effectum, in which he is entitled to refer the libel to the defender's oath.

Law of
31. One libel or fummons may contain different con3. clunions on the fame ground of right, relciflory, de- tien of acclaratory, petitory, \&c. if they be not repuynaut totions. each other: Nay, though different fums be due to one, upon diftinct grounds of debt, or even by different debtors, the creditor may infint againft therm all in the fame fummons.
32. Defences are pleas offered by a defender for Defences. eliding an action. They are either dilatory, which do not enter into the caufe itfelf, and fo can only procure an abfolvitor from the lis pendens: Oi, peremprory, which entirely cut off the puriver's right of action. 'The firlt, becaule they relate to the forms of proceeding muft be offered in limine jullizio, and all of them at once. But peremptory detences may be proponed at any time before fentence. By an act of federunt, however ( 1787 ), all defences, both dilatory and peremptory, fo far as they are known, mull be propoled at returning the fummons, under a penalty; and the lame enactment extends to the cafes of fulperifions and adrocations. The writings to be founded upon by the parties alfo mult be proflced: the intention of the court, in framing the act of lederent, being to accelerate as much as pofible the decifion of caules.
33. A caufe, after the partues had litigated it before Litifcontefo the judge, was faid by the Romans to be liticontelted. ta:ion. By litifontellation a judicial contraet is underfood :o be entered into by the litigants, by which the action is perpeturied againtl heirs, even when it ariles ex delicto. By our law, lizifconteltation is not formed till an act is extracted, admitting the libel or defences to proof.

## Sect. II. Of Probation.

claxiv.
I. All allegations by parties to a fuit, muft be fup- Probzticn, ported by proper proof. Probation is either by writing, by the party's own oath, or by witnelfes. In the cale of allegations, which may be proved by ciber of the three ways, a proof is faid to be admitted prout doprose do jure; becaule, in fuch cafe, all the legal methods of jive; probation are competent to the party; if the proo? he brings by writing be la:ne, he may bave recourte either to witnefies or to his adverfary's oath; but, if he fhould frit take himfelf to the proof by oath, he cannot thereafter ufe any other probation (for the reafon affigned par. 3.) ; and, on the contrary, a purfuer who has brought a proof by wituelles, on an extracted act, is not allowed to recur to the oath of the defender.Single combat, as a fort of appeal to Proridence, was, by fingte by our ancient law, admitted as eviderce, in matters both civil and criminal. It was afterwards refricted to the cafe of fuch capital crimes where no other proof could be bad ; fome traces of this blind inethod of trial remained even in the reign of Jame, VI. who, by 1600 , c. 12 . might authorize duels on weighty occafions.
2. As obligations or deeds figned by the farty him- by uritige. felf, or his ancellors or authors, mult be, of all evidence, the lealt liable to exception ; therefore every debt or allegation may be proved by proper evidence in writing. The folemnities effential to probative deeds have been already explained, (No clxxiv. 3. ct feq.). Books of account kept by merchants, tradefimen, and other dealers

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in bufinef, though not fubfribed, are probative again.t him who keeps them; and, in cafe of furnihings by a Thopkeeper, fuch books, if they are regularly kept by him, fupported by the tellimony of a fingle winefs, aford a fonriplena probario in his favour, which becomes full cridence by his own onth in fupplement. Notorial inftruments and executions by meffengers bear full evidence, that the lolemnities therein fet forth were ufed, not to be invalidated otherwife than by a proof of falfehood; but they do nut prove any other extrinfic facts therein averred, againtt third parties.
3. Regularly, no perfon's right can be proved by

Probation oath of party in reference.

Qualified naths.

Oaths in a becaufe thele are the bare averments of parties in their own favour. But, where the matter in iffue is referred by one of the parties to the oath of the other, fuch oath, though made in favour of the deponent himfelf, is decifive of the point; becaule the reference is a virtual contract between the litiganis, by which they are undertlood to put the iffue of the caufe upon what thall be depofed: and this contract is fo flrictly regarded, that the party who refers to the oath of the other can. not afterwards, in a civil action, plead upon any deed againft the party depofing, inconfiftent with his oath. To obviate the frares that may be laid for perjury, he to whofe oath of verity a point is referred, may refufe to depofe, till his adverfary fwear that he can bring no other evidence in proof of his allegation.
4. A defender, though he cannot be compelled to fiwear to facts in a libel properly criminal ; yet may, in trefpaffes, where the conclufion is limited to a fine, or to damages. In general, an oath of party cannot either hurt or benefit third parties; being, as to them, res inter alios akla.
i. An oath upon reference is fometimes qualified by fpecial limitations rellricing it. The qualities which are admitted by the judges as part of the oath, are called intrinfic ; thofe which the judge rejects or feparates from the oath, extrinfic. Where the quality makes a part of the allegation which is relevantly referred to oath, it is intrinfic. Thus, bccaufe a merchant, fuing for furnilhings after the three years, mult, in order to make a rclevancy, offer to prove by the defender's oath, not only the delivery of the goods, but that the price is till tue ; therefore, though the defender fhould acknowledge upon oath his having received the goods, yet, if he alds, that he pail the price, this lalt part being a denial that the debt fubfits, is intrinfic, fince it is truly the point referred to oath. Where the quality does not import an extinction of the debt, but barely a counter-claim, or mutun petitio, againft the purfuer, it is held as extrintic, and muft be proved aliunde. Neither can a defender who in his oath admits the confitution of a debt, get off by adjecting the quality of payment, where the payment ought by its nature to be vouched by written evidence.
6. Odiths of verity are fometimes referred by the judge to either party, ex officio; which, becaufe they are not founded on any implied contract between the litigants, are not finally decifive, but may be traverfed on proper evidence afterwards produced. Thefe oaths are commonly put by the judge for fupplying a lame or imperfect proof, and are therefore called oaths in fupplenent. (Sec par. 2.)
lumny have been introduced, by which either party may demand his adverary's oath, that he believes the fact contained in his libel or defences to be juf and true. As this is an oath, not of verity, but only o? opinion, the party who puts it to his adverfary does not renounce other probation; and therefore no party is bound to give an oath of calumny, on recent fans of his own, for fuch oath is really an oath of serity. Thele oaths have not been fo frequent fince the act of lederunt, Feb. 1.1715 , whereby any party, againt whom a fact thall be alleged, is obliged, without making oath, to confefs or deny it ; and, in cafe of calumnious denial, is fubjected to the expence that the other party has thereby incurred.
8. In all oaths, whether verity or calumny, the citation carries, or at leaft i:nplies, a certification, that if the party does not appear at the day alligned for depofing, he flall be held pro confeffo; from a prefumption of his confcioufnefs, that the fact upon which he declines to fwear makes againft him ; but no party can be held pro confeffo, if he be in the kingdom, without a previous perfonal citation ufed againft him. Though an oath which refolves into a non memini, cannot be a nonm faid to prove any point; yet where one fo depofes up- mini oat on a recent fact, to which he himfelf was privy, his oath is confidered as a diflembling of the truth, and he is held pro confeff, as if he had refufed to fivear.
9. An oath in litem, is that which the julge refers Oath in to a purfuer, for afcertaining either the quantity or the litem. value of goods which have been taken from him by the defender without order of law, or the extent of his damages. An oath in litem, as it is the affrmation of a party in his own behalf, is only allowed where there is proof that the other party has been engaged in fome illegal act, or where the public policy has made it neceflary, (fee No clxxiii. in.) This oath, as to the quantities, is not admitted, where there is a concurring teftimony of witnefles brought in proof of it. When it is put as to the value of goods, it is only an oath of credulity ; and therefore it has always been fubject to the modification of the court.
10. The law of Scotland rejects the teftimony of Probation witneffes, (1.) In payment of any fum above 1001. by witne Scots, all which muft be proved either fcripto vel jurra- ees, in mento. (2.) In all gratuitous promifes, though for the rejected, fmalleft tritte. (3.) In all contracts, where writing is either effential to their comflitution (fe $\mathrm{N}^{\circ}$ claxiv. 2.), or where it is ufually adhibited, as in the borrowing of money. And it is a general rule, fubject to the reftrictions mentioned in the next part, that no debt or riglit, once conflituted by writing, can be taken away by witnefles.
II. On the other part, probation by witneffes is ad- in what mitted to the extent of 1001 . Scots, in payments, mitted. nuncupative legacies, and verbal agreements which contain mutual obligations. And it is received to the higheft extent, (I.) In all bargains which have known engagements naturally arifing from them, concerning moveable goods. (2.) In facts performed in fatisfaction even of a written obligation, where fuch obligation binds the party precifely to the performance of them. (3.) In facts which with difficulty admit of a proof by writing, even though the effect of fuch proof thould be the extinction of a written obligation, cfpecially if the fats import fraud or violence; thus, a bond is redu-
cible $\varepsilon x$ dolo, on a proof by witnefies. Lally, All in. tromifion by a creditor with the rents of his debtor's eftate payable in grain, may be proved by wimefles; and eren intromilion with the filver rent, where the creditor has entered into the total pollellion of the debtor's lands.
12. No perlon, whofe near relation to another bars him from being a judge in his cause, can be admitted as a witnefs for him; but he may againft him, except a wite or child, who cannot be compelled to give teftimony against the buband or parent, ob reverentiam perfonce, et metums perjurii. Though the witnefs, whofe propinquity to one of the parties is objected to, be as nearly related to the other, the o jection flands good.
13. The teftimony of infamous pelfons is rejected, i. e. perfons who have been guilty of crimes that law declares to infer infany, or who have been declared infamous by the fentence of a judge; but infania facti does not difquailify a witnefs. Pupils are inhabile wit. nefles; being, in the judgement of law, incapable of the impreffions of an oath. And in general witneffes otherwife exceptionable may, where there is a penury of witneltes arifing from the nature or circumftances of the fact, be :eceived cum nota; that is, their teftimony, though not quite free from fufpicion, is to be conjoined with the other evidence, and to have fuch weight given it as the judge fhall think it deferves.
14. A!l witnefies, beficre they are examined in the caufe, are purged of partial couniel; that is, they muft declare, that they have no intere!t in the fuit, nor have given advice how to conduct it ; that they have got neither bribe nor promife, nor have been inftructed how to depole; and that they bear no enmity to either of the parties. Thefe, becaule they are the points put to a witne $\int_{s}$ before his making oath, are called initiala refimoniz. Where a party can bring prefent proof of a witnels's partial counfel, in any of the above particulars, he ought to offer it before the witnefs be froorn; but, becaule fuch objection, if it cannot be initantly verified, will be no bar to the examination, law allows the party in that cafe to proteit for reprobator, before the witaels is examised; i. e. that he may be afterwards allowed to bring evidence of his enmity, or other inability. Reprobator is competent even after fentence, where proteftation is duly entered; but in that cafe, the party infitting mult confign 1001. Scots, which he forfeits if he fuccumb. Ihis action mult have the concurrence of the king's advocate, becaufe the conclufion of it imports ; erjury; and for this reaton, the witnefs mult be made a party to it.
15. The interlocutozy fentence or warrant, by which parties are authorized to bring their proof, is either by way of act, or of incident diligence. In an act, the lord ordinary who pronounces it is no longer judge in the procefs; but in an incident diligence, which is commonly granted upon fuecial points, that do nct eshauft the canfe, the lord ordinary continues judge. If a witnefs does not appear at the day fixed by the warrant of citation, a fecond sarrant is granted of the nature of a caption, containing a command to meflengers to apprehend and bring him before the court. Where the party to whom a proof is granted, brings none within the term alloved by the warrant, an interlocutor is pronounced, circumducing the term, and pre-
cluding him from bringing evidence thercafter. Where evidence is brought, if it be upon an ait, the lord or. Sceitiond. dinary on the acts, after the term for providings is clapied, declares the proof concluded; and thereupon a flate of the cafe is prepared by the ordinary on concluded caufes, which muft be judged by the whole lords; but if the proof be taken upon an incident diligence, the import of it may be determined by the lord ordinary in the caufe.
16. Where facts do not admit a direct proof, pre-Prefumpfumptions are received as evidence which, in many cafes ions. make as convincing a proof as the diref. Prefumptions are confequences deduced from facts $k$ nown or proved, which inter the certainty, or at leait a flrong probability, of another fact to be proved. This kind of probation is therefore called artificial, becaufe it requires a reafoning to infer the truth of the point in quellion, from the facts that already appear in proof. Prefump:tions are either, 1. juris ct de jure; 2. juris; or, 3. hominis or judicis. The firft fort obtains, where llatuic or cuftom eflablifhes the truth of any point upan a prefumption; and it is foltrong, that it rejects all proof that may be broughe to elide it in 〔pecial cales. Thus, the teltimony of a witnefs, who forwardly offers himCelf without being cited, is, from a prefumption of his partiality, rejected, let his character be ever fo fair ; and thus alfo, a minor, becaule he is by law prefumed incapable of conducting his own affairs, is upon that prefumption difabled from acting without the confer: of his curators, though he thould be known to behave wilh the greatelt prudence. Many fac! pretumptions are fixed by itaiute.
17. Prafumptiones juris are thofe which our latr books or decitions have eftabifhed, without founding any particular confequence upon them, or ftatuting fisper preffumpto. Molt of this kind are not proper prefumptions inferred from pofitive faets, but are sunded merely on the want of a contrary proof; thus, the legal prefumptions for freedom, for life, for innocence, ふ̌c. are in effect fo many negative fropofitions, that ferwitude, death, and guilt, are not to be prefumed, without evidence brought by him who makes the allegation. All of them, whether they be of this fort, or prope: prefuraptions, as they are only conjectures formed from: what commonly happens, may be elided, not only by direct evidence, but by other conjestures, afiording is ftronger degree of probability to the contrary. Priefumptiones hominis or judicis, are thofe which avife daily from the circumltances of particular cales; the itrengtly of which is to be weighed by the judge.
18. A fictio juris differs from a prefumption. Things rifik... . are prefumed, which are likely to be true; but a fiction of law aflumes for truth what is either certainly falfe, or at leat is as probably falfe as true. Thus an heir is feigned or conficered in law as the fame perfon with his anceftor. Fictions of law mu!t, in their efe? ?, be always limited to the fpecial purpoles of equity for which they were introduced; fce an eample, N. clxxiiii. 3 .

## Sect. Ill. Of Sentences and dicir Exiccuitons.

1. Property would be moll uncertain, if debateable points might, after receiving a definitive judgement, be brought again in queflion, at the pleafure of cither of

Taw of Scotlerd.

- $\varepsilon$.

Decrees ind joro.

Iwo conife cutive ineerlocutors are final.

Time limit ed for appea!'s.
the partics: every fate has therefore fixcd the character of final to ccitain fentences or decrees, which in the Rcman law are called res judicate, and which excluve all review or rehearing.
2. Decrees of the court of feffion, are cither in foro e:niracitera, where both parties have litigated the caule, or in abfence of the defender. Decrecs of the fefioun in foro canuot, in the general cafe, be again brought under the review of the court, either on points which the parties negleficd to plead before fentence (which we call competent and omitted), or upen points theaded and found infufficient (proponed and repelled). But decrees, though in foro, are reverfible by the court, where either they labour under eflential nullities; e. g. where they are ultra petita, or not conformable to their grounds and warrants, or fuunded on an error in calcul, \&c. ; or where the party againlt whons the decree is obtained has thereafter recovered evidence futficient to overturn it, of which he knew not before.
3. As parties niight formetly reclaim agairff the fentences of the fellion, at any time before extracting the decree, no judgement was final till extrac?; bat now, a fentence of the inner houfe, cither n'st reclaimed againf within lis lederunt daysater its date, or adhered to upon a reclaiming bill, though ir cannot receive execution till extraf, makes the judgement fi nal as to the court of leflion. And by ais orier of the houfe of lords, March $24 \cdot 1725$, no apreal is to be received by them from fentences of the feltom, after five years from extracting the feuterce; unlif the perfon entitled to fuch appeal be minor, clorhed with a hufland, non compos mentis, imprifoned, on of of the kingdom. Sentences pronounced by the lurd oidi nary have the fame effec?, if not reclaimed armint, as if they were pronourced in prefence; and ail petitions againit the interlocutor of an ordinary mult be preferred within eight federunt days after ligning fuch interlocutor.
Decrees in ablence.

Decrees reviewed cither by reduction or sulpention.
4. Decrees, in abfence of the defender, he ve nin: the force of res judicata as to him ; for where the rlefender does not appear, he cannot be faid to have fub. jected himfelf by the judicial contran which in inn'ied in litifconteftation; a party therefore may be reflosed against thefe, upon paying to the other his cofts in recovering thens. The fentences of inferior courts may be reviewed by the court of feffion,--before decree. by advocation, -and after decree, by fufpenfion or roduction; which two laft are alfo the nethods of cal ing in queltion fuch decrees of the fefion itfelf, as can again be brought under the review of the court.
5. Pedufion is the proper remedy, either $\because$ here the decree has already received full execution by payment, or where it decrees nothing to be naid or performed, but fimply declares a right in favour of the purfuer. Sufpenfion is that form of law by which the effect of a ientence condemnatory, that has not yet received execution, is flaved or noftponed till the caufe be again confidered. The firf thep towards fufpenfion is a bill preferred to the lord ordinary on the bills. This bill. when the defire of it is granted, is a warrant for iffuing letters of fuppenfion wlich rafs the fignet; bur if the prefenter of the bill Mall not, within 14 days after paffing it, expedite the leiters, execusion may by at of lederunt 1677 proceed on the fen-
teace. In practice, horseser, it is ufus! fur the char ger to put up a proteftation in tise minute book for production of the fefpenfo:s, which may be expedied at any time before $t l_{12}$ is done; and if the fulpender fhall allow the frotelation to be extwetec, the fith falls. Sufpenfons of decrees in fro cannot pals, but by the whole lords in time of feffron, and by three in recation time; but other decrees miy be fulpended by any one of the judges. By the late act of lederunt ( 1787 ), in order to remedy the abufe of prefenting a multiplicity of hills of fufpenfion of the decrees of inferior jadges in imall cafes which have paffed in abionce, it is de. clared, that all bills of fufpenfion of decrects by inferior judges, in abfence, of the defenders in caufes under 12l. Aeiling value, thall be tefuled and remitted to the inferior judge, if competer:t the lufperder, however, before being heard in the inferior conrt, reimbureing the charger of the experces incurred by him previous to the remit.
6. As fufpenfion has the effect of flaying the execu-sufpender tion of the creditor's legal diligence, it cannot, in the munt give general cafe, pafs without caution given by the fufpen-cauticn der to may the deht, in the event it ihall be found due. Where the fufpender cannot, from his low or fufpected circumftasce:, procute.unqueftionable fecurity, the lords admit juratory caution, i. e. fuch as the fulpender linears is the beth he can offer; but the reafors of fufpention ate, in that cafe, in be confidered with parti.ular accuracy at palfing the bill. Decrees in Ensour of the clergy, of univerfities, hofpitals, or parita. fchonmatters, for their ftipends, rents, or falaries, carnot be fufpended, but u:on production of dif. clarges, or on confignation of the fums charged for A charger, who thin.ks himfelf fecure without a cautioner, and wants defpatch, may, where a fufpenfioa of his diligence is rought, apply to the court to get the reafons of fufpention fummarily difculied on the bill.
7. Though he, in whofe favour the decree fufpend-Sufpenfo: ed is pronounced, be always called the charger, yet a when com decree may be fuipended before a charge be given on peter.t. it. Nay, fufpenfion is competent even where there is no decree, for putting a fop to any illigal act whatoever: thus, a building, or the exercife of a power which one affumes unwarrantably, is a proper fubject of fufuenfion. Letters of fufpenfion are confidered merely as a pronibitory diligence; fo that the fufpender, if he would turn provoker, muft bring an action of redufion. If, upon difculling the letters of fufpenfior, the reafons fiall be futtained, a decree is pronounced, fufpending the letters of diligence on which the charge was given formpliciter; which is called a decree of fufpenfion, and takes off the effect of the degree rufpended if the reafons of fufpenfion be repelled, the court find the letters of diligence orderly proceeded, i. e. regularly carried on : and they ordain them to be put to farther execution.
8. Dicrees are carried into execntion, by diligence, Extractio either againd the perfon or againt the eltate of the of decreas debtor. The firf Atep of perfonal execution is by letters of horning which pafs by a warrant of the court of feffion, on the decrees of magiftates of boroughs, merifts, admirals, and commiliaries. If the debtor docs not ohey the will of the letters of horning within the days of the clarge, the charger, after denouncing
bow ni him rebcl, and regifering the homing, may apply for letters of caption, writich contain a command, not only to mefiencers, but to maciftrates, to apprehend and impriton the debtor. All inetiengers and magiltrates, who refufe their athtance in executing the caption, are liablc jut fidiares for the dett; and fuch fubsidiary action is fu porte! by the exection of the meffenger, e:anloyed by the creditor, exprelfing that they were cliarged to concur, and would not. I.etters o? caption contain an exprefs marrant to the meflenger, in cafe he cannot get accefs, to break open all docrs and othcr lock-falt places.
9. Law fecurcs peerc, married women, and pupils, againtt perfonal execution by caption upon civil debts. Such commoners alro as are elected to ferve in parliament, are fecured againft perfonal caccution by the privilege of pariament. No caption can be executed againft a debtor within the precincts of the king's ralace of Holyroodhoufe; but this privilege of fane ay afforded no lecurity to criminals, as that did which was by the canon law conferred on churches and religious houfes. Where the perfonal prefence of a debtor, under caption, is neceffary in any of vir fupreme courte, the judges are empowered to grant him a protection, for luch time as may be fufficient for his coming and going, rot excceding a month. Protection from diligence is alfo granted by the court of feffion under the late bankrupt itatute, where it is applied for, with concurrence of the trultee, or a certain number of the creditors, as the cafe may requise.
10. After a debtor is imprifoned, he ought not to be indulged the benefit of the air, not even under a guard ; for creditors have an intereft, that their debtor be kept under clofe confnement, that, by the fqualor carceris, they may be brought to pay their debt: and any magiftrate or jailor, who fhall fuffer the prifoner to go abroad, without a proper atteftation, upon oath, of the dangerous flate of his health, is liable fubfidiarie for the debt. Magiftrates are in like manner liable if they thall fiffer a prifoner to cfape through the infutficiency of their prifon: but if he gall efcape under night, by the ufe of inftrumerit, or by open focce, or by any other accident which cannot be imputed to the magiffrates. or jailor, they are not chargeable with the debt; provided they thail have immediately after his efoape, made aill potible fearch for lim. A cafe lately cocuricd where a meffenger having apprehended a perfun fur a déct, upon leiters of caption, delivered him ever to the prevolt of the burgh, and touk a receipt fur him. The provolt allowed him to remain ai the inn all night, and afterwards allowed him what is called epen grol, by which he had accels to the courtloufe, uader the fame ruof with the prilon, where he tranfacted buincfe. As the perfon at whofe inflance he was appreherded upon the caption, confidered that the magiffrates hat not kept the debtor in prifon as commanded by the letters, lie brought an action againf them for the de't, although the debtor had not fo much as atiempted to make his efcape. It ivas con: enced by the magifrates, that they were not liable, l:aving only folluwed the ufual practice of the burgh: I Lit the court of feflion, confidering the magittrates as paincipal kecpers of the prifon, and as fuch having no difcretinnary forwer, ricie of opinion, that the debeor lad never been inmrifonce in the eye of law, and
therefore found the magiterates liable; and their judge. ment was aftirmed upon an appeal. Regularly, no prioner for debt upon letters of capzion, though he thould have made payment, could be relcafed without leters of ortn of lifir mate payment, coudd be relcaled without letiers c: berating a Fulpenion, containing a charge to the jailor to let him fri wer. at liberty; bscaufe the creditor"s difcharge could not take off the penalty incured by the debior foe coantempt of the kiag's authority: but to fave unneceflay experce to debtors in imall debts; jailors are empowered to let go prituners where the debt docs not exceed 200 mer's Scots, upon prodaction of a dicharge in which the creditor cunfents to his releafe.
11. Our law from a conifleration of compafion, Liberation allows infolvent debtors to apply for a releafe from pri-upon a ceffon upon a ceffo bonor:um, i. e. upon their making over fiobonoto the creditors all their eftate real and perfonal. This rum ; muft be infinted for by way of action, to which all the creditors of the prifoner ought to be made parties. The priloner mult, in this action, which is cognizable only by the court of felfion, eslifitit a particular inventory of his cflate, and make oath that be has no other eftate than is therein contained, and that he has made no conveyance of any part of it, fince his imprilonment, to the burt of his creditors. He mult allo make oith, whether he has granted any difpofition of his effels before his imprifonment, and condefcend on the perfons to whom, and on the caule of granting it ; that the court may judge, whether, by any collufive practice, he has forfeted his claim to liberty.
12. A fraudulent bankrupt is not ailowed this pri-not comvilege; nor a criminal who is liable in any aflythment petent to o: indemnification to the party injured or his executor, delinthough the crime iffelf thould be extinguifhed by a pardoa. A difpofition granted on a ceffio borsprion is merely in farther fecurity to the creditors, not in fatisfaction or in folutum of the debts. If, therefore, the debtor fhould acquire any eftate after his relcale, fuch effate may be attached by his creditors, as if there hat been no ceffo, except in to far as is neccilary for his lubfiltence. Debtors, who are fet free on a ce/fo bonorum, are obliged to wear a habit proper to dywours or banklupts. Ilbe lords are prohibited to difpenfe with :his Dyvours mark of ignominy, unlefs, in the fummons and procets of ceffo, it be libelled, fultained, and proved, that the tarkruptcy proceeds from misfortune. And bankrupts are condemned to fubmit to the habit, even where no fufpicion of fraud lies againt them, if they bavc been dealers in an illicit trade.
13. Where a prifoner for debt declares upon oath, Lfore the magillate of the juridiction, that he has not wherewith to maintain himfelf, the magiftrate may fet him at liberty, if the creditor, in confeque:ace of whofe diligence he was imprifoned, does not aliment him within ten days after intimation made for that purpofe. But the magitirate may, in fuch cafe, detain him in prifon, if the creditcr choofes to bear the burden of the aliment rather than releafe him. 'The Patute au- Act of thorizing this re.eafe, which is ufu!lly called the at graze. of grace, is limited to the cafe of frifoners for civil debts.
14. Decrecs are executed againf the noweable cflate Executron of the debtor by arreltment or coinding; and agrinflaganft the his horitable cllate, by inhihition, or adjudication. If fichtor's cone b e coadenined, in a removing or vilier procels, to thate. wat :he poficfiom of lands, and refufes, notwithfanding

L A W. ewery breach either of the law of God or of our country; in a more reftricted meaning, it fignifies fuch tranfgreflions of law as are punifhable by courts of juftice.
public, and Crimes were, by the Roman law, divided into public and prisate. Public crimes were thofe that were expreflis declared fuch by fome law or conflitution, and which, on account of their more atrocious nature and hurfful confequences, might be profecuted by any mem-
private.
a charge, letters of ejection are granted of courfe, ordaining the fheriff to ejech him, and to enter the obtainer of the decrec into peffeffion. Where one oppofes by violence the erecution of a decree, or of any lawful diligence, which the civil magiffrate is not able by himfelf and his officers to make good, the execution is enforced manu militari.
15. A decree arbitral, which is a fentence proceeding on a fubmiffion to arbiters, has fome affinity with a judicial fentence, though in mont refpects the two differ. A fubmilion is a contract entered into by two or more parties who have difputable aights or claims, whereby they refer their differences to the final determination of an arbiter or arbiters, and oblige themfelves to acquiefce in what thall be decided. Where the day within which the arbiters are to decide, is left blank in the fubmilion, practice has limited the arbiters power of deciding to a year. As this las proceeded from the oldinary words of Ityle, empowering the arbiters to determine betwixt and the day of next to come; therefore, where a fubmilion is indefinite, without fpecifying any time, like all other contracts or obligations, it fublifts for 40 years. Subeniffions, like mandates, expire by the death of any of the partics fubmitters before fentence. As arbiters are not vefted with juridiction, they cannot compel witneffes to make oath before them, or havers of writings to exhibit them ; but this defeet is fupplied by the court of feffion, who, at the fuit of the arbiters, or of either of the parties, will grant warrant for citing witnefes, or for the exhibition of writing. For the fame reafon, the power of arbiters is barely to decide; the execution of the decree belongs to the judge. Where the fubmitters confent to the regiftration of the decree arbitral, performance may be enforced by furmmary diligence.
16. The power of arbiters is wholly derived from the confent of parties. Hence where their powers are linited to a certain day, they cannot pronounce fen. tence after that day. Nor can they fubjeet partics to a penalty higher than that which they have agreed to in the fubmifion. And where a fubminion is limited to fpecial claims, fentence pronounced on fubjects not fpecified in the fubmifion is null, as being ultra vires compromiff.
17. But, on the other hand, as fubmifions are defigned for a mof favourable purpofe, the amicable compoling of differences, the powers thereby conferred on arbiters receive an ample interpretation. Decrees arbitral are not reducible upon any ground, except co:ruption, bribery, or fallehood. ber of the community. Private crimes could be pur- fued only by the party injured, and were generally pu-
nifhed by a pecuniary fure to be applied to his ufe. By the law of Scotland, no private party, except the perfon injured, or his next of kin, can accufe criminally: but the king's adrocate, who in this queftion reprefents the community, has a right to profecuse all crimes in rindictam publicam, though the party injured hould refufe to concur. Smaller ofiences, as petty riots, injuries, \&ic. which do not demand the public rengeance, pals'generally by the appellation of delias, and are punifhed either by finc or impuifonment.
2. The effence of a crime is, that there be an inten- What efo tion in the aftor to commit; for an action in which fential to the will of the agent has no part is not a proper ob- crimes. ject either of rewards or punillunents: hence arifes the rule crimon dolo contrahitur. Simple negrligence does not therefore conltitute a proper crime. Yet where it is extremcly grofs, it nay be punihed arbitrarily. Far lefs can we reckion in the number of crimes, thofe committed by an idios or furious perfon: but leffer degrees of tatuity, which onsly darker seafor, will not afford a totai detence, though they may fave from the pona ordinaria. Actions commited in drumkennefs are not to be confidered as involuntary, fecing the drunkennefs itfelf, which was the firlt caufe of the action, is both voluntary and criminal.
3. On the fame princip?e, fuch as are in a flate of infancy, or in the confines of it, are incapable of a criminal action, dole not being incident to that age; but the precife age at which a perfon becomes capable of dole, being fixed neither by nature nor by flatute, is by our practice to be gathered by the judge, as he beft can, from the underttanding and manners of the perfon accufed. Where the guilt of a crime arifes chiefiy from flatute, the actor, if he is under puberty, can hardly be fouad guilty; but, where nature itfelf points out its deformity, he may, if he is proximus pubertati, be more eafily prefumed capable of committing it: yet, even in that cafe, he will not be punifhed pana ordinaria.
4. One may be guilty of a crime, not only by per-Acceffo. petrating it himfelf, but being accellory to a crime ries, or art committed by another; which laft is by civilians ftyled and part. ope et conflizo, and, in our law phrafe, art and part. A perfon may be guilty, art and part, either by giving advice or counfel to commit the crime; or, 2. By giving warrant or mandate to commit it; or, 3. By aclually afititing the criminal in the execution. It is generally agreed by dochors, that, in the more atrocious climes, the adviler is equally punifhable with the criminal ; and that, in the flighter, the circumitances arifing from the advifer's leffer age, the jocular or carelefs manner of giving advice, \&c. may be received as pleas for foftening the punifhment. One who gives mandate to commit a crime, as he is the firf fpring of action, feems more guilty than the perfon employed as the infirument in executing it ; yet the actor cannot excufe himelelf under the pretence of orders which he ought not to have obeyed.
5. Alfifar.ce may be given to the commiter of a crime, not only in the actual execution, but previous to it, by furnilling him, intentionally, with poifon, arms, or the other ineans of perpetrating it. That fort of afillance which is not given till after the criminal act, and which is commonly called abetting, though it be of itfclf criminal, does not iufer art and part of the
principal crime; as if one fhould favour the efcape of a criminal, knowing him to be fuch, or conceal him from juftice.
6. Thofe crimes that are in their confequences moft hurtful to fociety, are punifhed capitally, or by death; others efcape with a leffer punihment, fometimes fixed by flatute, and fometimes arbitrary, i. e. left to the difcretion of the judge, who may exercife his jurifdiction, either by fine, imprifonment, or a corporal punithment. Where the puniflument is left, by law, to the difcretion of the judge, he can in no cale extend it to death. The fingle efcheat of the criminal falls on conviction, in all capital trials, though the fentence thould not exprefs it.
7. Certain crimes are committed more immediately againf God himfelf; others, againlt the flate; and a third kind, againt particular perlons. The chief crime in the frift clafs, cognizable by temporal courts, is blafphemy, under which may be included atheifm. This crime confifts in the denying or vilifying the Deity, by fpeech or writing. All who curfe God or any of the perfons of the bleffed 'Trinity, are to fuffer death, even for a fingle act; and thofe who deny him, if they perfirt in their denial. The denial of a Providence, or of the authority of the holy Scriptures, is punifhable capitally for the third offence.
8. No profecution can now be carried on for witchcraft or conjuration. But all who undertake, from their ßkill in any occult Ccience, to tell fortunes, or difcover folen goods, are to fuffer imprifonment for a year, fland in the pillory four times in that year, and find furety for their future goed behaviour.
9. Some crimes againft the ftate are levelled directly againft the fupreme power, and Itrike at the conftitution itfelf: others difcover fuch a contempt of law, as tends to baffle authority, or flacken the reins of government. Treafon, crimen majefatis, is that crime which is aimed againlt the majelty of the ftate; and can be committed only by thofe who are fubjects of that flate either by birth or refidence. Soon after the urtion of the two kingdoms in 1707, the laws of treafon, then in force in England, were made ours by 7 Ann. c. 21. both with regard to the facts conflituting that crime, to the forms of trial, the corruption of blood, and all the penalties and forfeitures confequent on it.
10. It is high treafon, by the law of England, to imagine the death of the king, queen confort, or of the heir apparent of the crown; to levy was againit the king, or adhere to his enemies; to counterfeit the king's coin, or his great or privy feal; to kill the chancellor, treafurer, or any of the 12 judges of England, while they are doing their offices: which laft article is by the forenamed act 7 Ann. applied to Scotland, in the cafe of flaying any judge of the feffion or of jufliciary fitting in judgement. Thcle who wahl, clip, or lighten, the proper money of the realm ; who adviledly affirm by writing or printing, that the pretender bas any right to the crown, that the king and parliament cannot limit the fucceffion to it, or who hold correfpondence with the pretender, or any perfon employed by him, are alfo guilty of treafon.

1i. 'ilie forms of proceeding in the trial of treafon, w!?ether againft peers or commoners, are fet forth in a fmall treatic, publiflec! by order of the houfe of lards

VoL. XI. Part II.
in 1709 , fubjoined to a collection of fatutes concerning treafon. By the conviction upon this trial, the whole eftate of the traitor forfeits to the crown. His blood is alfo corrupted, fo that, on the death of an anceftor, he cannot inherit; and the eftate which he cannot take, falls to the immediate fuperior as efcheat, ob defectum heredis, without diftinguihing whether the lands hold of the crown, or of a fubject. No attainder for trealon thall, after the death of the pretender and all his fons, hurt the right of any perfon, ather than that of the offender, during his matural life; the rights of creditors and other third parties, in the cafe of forfeiture on treafon, mult be determined by the law of England.
12. Mijprifion of treafon, from meprendre, is the over-Mitiprifion looking or concealing of trealon. It is inferred by of treation. one's bare knowledge of the crime, and not difovering it to a magilirate or orher perion entitled by his
oftice to take examination; though he flould not in ing it to a magilitate or orher perion entitled by his
oftice to take examination ; though he flould not in? the lealt degree affent to it. The forefaid act 7 Ann . makes the Englif law of mifrifion ours. Its punith-
ment is, by the law of England, perpetual imprifonment is, by the law of England, perpetual imprifonment, together with the forfeiture of the offender's
moveables, and of the profits of his heritable effate, ment, together with the forfeiture of the offender's
moveables, and of the profits of his heritable eflate, during his life; that is, in the fyle of our law, his fingle and liferent eicheat.
13. The crime of fedition confifls in the raifing com-Sedition. motions or difturbances in the ftate. It is either verbal or real. Verbal fedition, or leafing-making, is inferred from the uttering of words tending to create difcord between the king and his people. It is punifhed either by imprifonment, fine, or banifliment, at the difcretion of the judge. Real fedition is generally committed by convocating together any confiderable number of people, without lawful authority, under the preber of people, without lawful authority, under the pre-
tence of redrefling fome public grievance, to the difturbing of the public peace. Thofe who are convicted of ing of the public peace. Thote who are convicted of
this crime are punimed by the confifcation of their goods; and their lives are at the king's will. If any perfons, to the number of 12 , thall affemble, and being required by a magiftrate or conttable to dilperfe, hall neverthelef́s continue together for an hour after fuch conmand, the perfons difobeying hall fuffer death and confication of moveables.
14. Judges, who, wilfully or through corruption, C rrmption ure their authority as a cover to injutice or oppreffion, in judges. are punifhed with the lois of honour, fame and dignity. Under this head may be clafled thefibote (from nity. "Under this head may be clafled thefibote (from
boore, "compenfation"), which is the taking a confideration in money or goods from a thief to exempt him from puniflument, or connive at his efcape from hum from punilliment, or connive at his ecape from forfeits his life and goods. And cven a private perfon, viho takes theftbote, luffers as the principal thief. The who takes theftbote, luffers as the principal thief. The
buying of difputed clains, concerning which there is a pending procefs, by any judge or member either of the
felfion or of an inferior court, is punilled by the lofs pending procefs, by any judge or member either of the
felfion or of an inferior court, is punillied by the lofs of the delinquent's olfice, and all the privileges thereto belonging.
15. Deforcement is the oppofition given, or refill- Defooc15. Deforcement is the oppofition given, or refill- Deforec
ance made, to mefiengers or other officers, while they ment. are employed in executing the law. The court of Ceffiun is competent to this crime. It in puni!lable with the couffication of moveablee, the one half to the hing, and the other to the creditor at whule fuit the diligence

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was uled. Armed perfons, to the number of three or more, alifiti g in the illegal rmming, landing, or exporting of prohisted or uncutomed goods, or any who fhall relif, wound, or mairn any officer of the revenue, in the evecution of his oflice, are punifhable with death and the confifcation of moreables.
16. Breach of archimini (fee $\mathrm{N}^{0}$ lxxviii. 5.) is a crime of the fame nature with deforcement, as it inports a contempt of the law and of our judges. It fubjoces to an arbitrary corporal punifonent, and the efcheat of moveables; with a prefereace to the creditor for his debt, and for fuch faxther fum as hall be modified to lim by the judge. Under this head of crimes againft good government and police, may be reckoned the forefialling of markets; that is, the buying of goods inituded for a public market, before they are carried there; whel for the third criminal act infers the efcheat of movalites; as allo flaying falmon in forbidden time, del? roving ! lough graith in time of tillage, flaying or houghing liorfes or cows in time of harveft, and deftroying or fpoiling growing timber; as to the puniflement of which, fee flatutes 1503 . c. 72 . -1587 , c. 82. and 1689 , c. 16.-1. Gco. I. St. 2. c. 48 .
17. Crimes againft particular perfons may be directed cither againf life, limb, iiberty, challity, goods, or reputation. Murder is the wilful taking away of a perfon's life, withont a neceffary caufe. Our law makes so diftincion betwist promedirated and fudden homicide: both are punifhed capitally. Cafual homicide, where the actor is in fome degree blameable; and homicide in felf-defence, where the junt bounds of defence have been exceeded; are punithed arbitrarily: but the flaughter of night thieves, houfebreakers, affiftances in mafterful depiedations, or rebels denounced for capital crimes, may be committed with impunity. The crime of demembration, or the cutting off a member, is joined with that of murder ; but in practice its punibment has been reftricted to the efcheat of moveables, and an aflythment or indemnification to the party. Mutilation, or the difabling of a member, is punithed at the difcretion of the judge.
18. Self-murder is as highly criminal as the killing our neighbour ; and for this realon, our law has, contrary to the rulc, crimina morte extinguntur, allowed a proof of the crime, after the offender's death, that his fingle cfcheat might fall to the king or his donatory. To this end, an action munt be brought, not before the jufticiary, but the feffion, becaufe it is only intended ad civilen effectum, for proving and declaring the felf-murder; and the next of kin to the deceafed mult be made a party to it.
19. The puniflment of parricide, or of the murder of a parent, is not confined, by our law, to the crimiral himfelf. All his pofterity in the right line are declared incapable of inheriting; and the fucceftion devolves on the next collateral heir. Even the curfing or beating of a parent infers deaih, if the perfon guilty he chove 16 years; and an arbitrary punilhment, if lie tee under it. A prefumptive or flatutory murder is conflituted by $1690, c$. 21 . by which any woman Who liall conceal her pregnancy, during its whole courfe, and thall not call for, or make ufe of, help in the birth, is to be reputed the murderer, if the child be dead, or amifling. This act was intended to dif-
courage the unnatural practice of women making away Law of with their children begotten in fornication, to avoid Scotland church ecufures.
20. Duelling, is the crime of fighting in fingle com-Duelling. bat, on previous challenges given and received. Fighting in a duel, without licenfe from the king, is puniflable by death; and whatever perfon, principal or fecond, thall give a challenge to fight a duel, or fhall accept a challenge, or otherwife engage therein, is punilhed by banilhment and efcheat of moveables, though no actual fighting thould enfue.

2 : Hainflucken from liain " bome," and focken" to Haimfuc. fcek or purfue") is the aflaulting or beating of a per-ken. fon in his own houle. The punimment of this erime is nowhere defined, except in the books of the Majefty, which makes it the fame as that of a rape; and it is, like rape, capital by our practice. The affault muft be made in the proper houfe of the perfon allaulted, where he lies and rifes daily and nightly; fo that neither a public houfe, nor even a private, where one is only trasfiently, falls within the law.
22. Any party to a law firit, who fhall flay, wound, Battery. or othervile invade his adverfary, at any period of time between executing the funmons and the complete cxecution of the decree, or flall be aeceflory to fuch invafion, flall lofe his caufe. The fentence pronounced on this trial, againft him who has committed the battcry, is not fubjeet to reduction, either on the head of minority, or on any other ground whatever: and if the perfon profecuted for this crime thall be denounced for not appearing, his liferent, as well as fingle cfcheat, falls upon the denunciation.
23. The crime of wrongous imprifonment is inferred, Wrongou by granting warrants of commitment in order to trial, impriionproceeding on informations not fubforibed, or without ment. exprefling the caufe of comaitment; by receiving or detaining prifoners on fuch warrants; by refufing to a prifoner a copy of the warrant of commitinent; by detaining him in clofe confintment, above cight days af. ter his commitment; by not releafing him on bail, where the crime is bailable; and by tranfporting perfons out of the kingdom, without either their own con fent, or a lawful fentence. The perfons guilty of a wrongous imprifonment are punilhed by a pecuniary mulct, from 60001 . down to 400 l . Seots, according to the rank of the perfon detained; and the judge, or other perfon guilty, is over and above fubjected to pay to the perfon detained a certain fum per dicm proportioned to bis rank, and is declared incapable of public truft. All thefe penalties may be infifted for by a fummary action before the feffion, and are fubject to no modification.
24. Advitery, is the crime by which the marriage Adulters. bed is polluted. This crime could neither by the Roman nor Jewifh law be committed, but where the guilty woman was the wife of another: by ours, it is adultery, if either the man or woman be married. We diltinguifh between fimple adultery; and that which is notorious or manifeft. Open and manifell adulterers, who continue incorrigible, notwithtanding the cenfures of the church, are punilised capitally. This crime is diflinguifhed by one or other of the following characters: where there is iffue procreated between the adultcrers; or where they leep bed and company together notorioutly; or where they give fcandal to

## Chap. III.

Lase of the church, and are, upon their osptiante refuing t, Siortanil. litlen to it admonitions, excommunicated. The punihment of fimple adaltery, not being definel by itatute, is left to the difcretion of the judge; but culton las made the falling of the lingle efcheat one of its fenalties.
25. Bigamy is a paton's entering into the engagements of a fecond marringe, in volation of a former morriage vow ftill fublifting. Bigamy, on the part of the man, has been tolerated in many llates, before the eftablifhment of Chriltianity, even by the Jews themlelves; but it is prohioited by the precepts of the gofpel, and it is punithed by our law, whether on the part of the man or of the woman, with the paits of perjury.
26. Incef, is committed by perfons who fanci within the degrees of kindred forbidden in Lev. swiii. and is punifhed capitally. The fame degrees are prohibited in afinity, as in confanguinity, Lev: xviii. 13. ef feq. As this crime is repugnant to nature, all childien, whether lawful or natural, fand on an equal footing : civilis ratio civilia jura corrumpere poteft, non vero naturalia. It is difficult indeed to bring a legal proof of a relation merely natural, on the fide of the fathet; but the mother may be certainly known with. out marriage.
27. There is no explicit Atatute making rape, or the ravihing of women, capital ; but it is plainly fuppofed in att 1612, c. 4 . by which the raviher is exempted from the pains of death, only in the cafe of the wo. man's fubfequent conient, or her declatation that the went off with him of her own free will; and even then, he is to fuffer an arbitrary punifment, either by imprifonment, confifcation of goods, or a pecuniary fine.
28. Theft is defined, A fraudulent intermedding with the property of another, with a view of making gain. Our ancient law proportioned the punithment of the theft to the value of the goods Atolen; heightening it gradually, from a night corporal punilhment to a cafital, if the value amounted to thirty-two pennies Scots, which in the seign of David I. was the price of two theep. In \{everal latter acts, it is taken for granted, that this crime is capital. But where the thing itolen is of fmall value, we confider it pot as theft but as pickery, which is punithed either corporally or by banifhment. The breaking of orchards, and the \{tealing of green wood, is punilhed by a fine, which rifes as the crime is repeated.
29. Theft may be aggravated into a capital crime, though the value of the thing folen loe trifing ; as theft twice repeated, or commited in the night, or by landed men; or of things fet apart for facred ufes. The receivers and concealers of itolen goods, knowing them to be fuch, fuffer as thieves. Thofe who barely harbour the perfon of the criminal within is hours either before or after committing the crime, are punihed as partakers of the thefr. Such as fell goods belonging to thieves or lawlefs perfons who date not themfelves come to market, are punifned with banithment and the efcheat of moveables.
30. Theft attended with violence is called robbery; and in our old llatutes, ricf or fouthricf; wader which clats may be included formine, or the taking of meat and drink by force, without paying for it. Stouthricf came at laft to be committed fo audacioully, by bands of men
affociated togetiser, tilat it was thought necentiry to ven all cur frecholders with a power of holding courts up. on forners and ricvers, and condernuing them to death. Nay, all were capitally punifled, who, to fecure their lands from depredation, paid to the rievers a yearly contribution, which got the name of lieck mail. An act alto paffed, commanding to banifhment a uand of lorners, who were originally from Esypt, called gyphe:, and adjudging to death all that thould be reputed legyptians. it found thereafter within the kingdom. Kobberry committed on the feas is called procy, and is punihes capitally by the high admiral. Several of the facts which conflitute this crime are fet forth in a Britifh Itatute, 8 Geo. I. c. 24.
31. Falfehood, in a large fenfe, is the fraudulent imi. Falfenood. tation or fuppreftion of truth, to the damage of another. The lives and goods of perfons convicted of wing falfe weights or meafures were, by our uld law, in the king's mercy : and their heirs could not inherit but upon a
 nithes it by confifation of moreabies. That particular fpecies of fallehood, which contits in the falifying of writings, paffes by the name of forgery. Our practice Forgery. has norw of a long time, agrecably to the Roman law, made this crime capital; unlefs the forgery be of cxecutions, or other writings of fmaller moment; in which cafe, it is punithed arbitianily.
32. The writing mult not only be fabricated, but put to ufe or founded on, in order to infer this crime. And though it be frictly criminal, yot the trial of it is proper to the court of fellion ; biot where improbaticn is moved againll a deed by way of exception, the infenior judge, before whon the action lies, is competent to it ad civileme efrocium. When it is pleaded as an exception, out practice, to difcourage affected delays, obliges the defender, who moves it, to confign fol. Scots; which he forfeits, if his plea thall aphear calumnious.
33. Where a perfon, found guilty of forgery by the court of fellion is by them remitted to the jufficiary, an indictment is there exhibited againlt him, and a jury from, before whom the decree of fellion is produced, in place of all other evidence of the crime, in re. fpect of which the jury find the pannel guilty; fo that that decree being pronounced by a competent court, is held as full proof, or, in the ftyle of the bar, as probatio probala.
34. Perjury, which is the judicial atiomation of a Perjury. fallehood on oath, really conftitutes the erimen falf for he who is guity of it docs, in the molt folemn manner, fubstitute fallehood in the place of truth. To conflitute this crime, the violation of truth mull be deliberately intended by the fwearer; and therefore reafonable allowances ought to be given to forgetfulnefs or mifapprehenfon, according to his age, liealth, and other circumftances. The breach of a promifory onth does not infer this crine ; for he who promifes on oath may ancercly intend performance when he fiweate, and fo cansot be faicl to cali on God to attert a falle. hood. Though an oath, however falle, if made upon reference in a civil queftion, concludes the caule, the perfon perjured is liable to a criminal trial ; for the effect of the reference can go no further than the private right of the parties.
35. Notwithftanding the mifchicrous conlequences 4 ' 2

Law of Scotland.
of perjury to fociety, it is not punifhed capitally, but by confication of moveables, imprifonment for a year, and infamy. The court of feffion is competent to perjury incidenter, when, in any esamination upon oath, taken in a caufe depending before them, a perfon appears to have fivorn faifely : but in the common cale, that trial is proper to the julliciary. Subornation of perjury confifts in tampering with perfons who are to fwear in judgement, by directing them how they are to depofe: and it is punifhed with the pains of perjury.
36. The crime of Aellionate, from Aellio, includes every fraud which is not difinguithed by a fpecial name; but is chietly applied to conveyances of the fame rumerical right, granted by the proprietor to different difponses. The punifhment of fellionate muft neceffarily be arbitrary, to adapt it to the various natures and different aggravations of the fraudulent acts. The perfons guilty of that kind of it, which confifts in granting double conveyances, are by our law declared infamous, and their lives and goods at the king's mercy. The cognizance of fraudulent bankruptcy is appropriated to the court of feffion, who may inflict any punifhment on the offender that appears proportioned to his guilt, death excepted,
37. The crime of ufury, before the Reformation, confited in the taking of any intereft for the ufe of money; and now in taking a higher rate of interelt than is authorized by lawv. It is divided into ufura manifefa, or direct; and velata, or covered. One may be guilty of the firit kind, either where he covenants with the debtor for more than the lawful interefl on the loan-money: or where one receives the interelt of a fum before it is due, fince thereby he takes a confideration of the ufe of money before the debtor has really got the ufe of it. Where a debt is clogged with an uncertain condition, by which the creditor runs the hazard of lofing his fum, he may covenant for a higher intereft than the legal, without the crime of ufury: for there the intereft is not given merely in confideration of the ufe of the money, but of the danger undertaken by the creditor.

3S. Covered ufury, is that which is committed under the mafk, not of a loan, but of fome other contract; e. g. a fale or an improper wadiet, And in general, all obligations entered into with an intention of geting more than the legal intereft for the wife of money, however they may be difguifed, are ufurious. As a farther guard againft this crime, the taking more than the legal interelt for the forbcarance of payment of money, merchandife, or other commodities, by way of loan, exchange, or other contrivance whatever, or the taking a bribe for the loan of money, or for delaying its payment when lent, is declared ufury. Where ufury is proved, the ufurious obligation is not only declared void, but the creditor, if he has received any unlavyful profits, forfeits the treble value of the fums or goods lent. Ufury when it is to be purfued criminaily, muft be tried by the jufticiary : but where the libel concludes only for voiding the debt, or reflitution, the fef-
39. Injury, in its proper acceptation, is the re- proaching or affronting our neighbour. Injurics are either verbal or real. A verbal injury, when directed againt a private perfon, conifts in the uttering contu-
melious words, which tend to espofe our neighbour's character by making him little or ridiculous. It does not feern that the twitting one with natural defects without any farcaftical refections, though it be inhuman, falls under this defcription, as thele imply no real reproach in the juff opinioin of mankind. Where the injurious expreflions have a iendency to blacken one's moral character, or fix fome particular guilt upon him, and are deliberately repeated in different companies, or handed about in whifpers to confidants, it then grows up to the crime of flander: and where a perfon's moral character is thus attacked, the animus injuriandi is commonly inferred from the injurious wards themfelves, unlefs fpecial circumflances be offered to take off the prefumption, $c x g r$. that the words were uttered in judgement in one's own defence, or by way of information to a magittrate, and had fome foundation in fact. Though the cognizance of flander is proper to the commillaries, who, as the judices Chrifianitatis, are the only judges of fcandal; yet, for fome time paft, bare verbal injuries have been tried by other criminal judges, and even by the feffion. It is punifhed either by a fine, proportioned to the condition of the perfons injuring and injured, and the circumftances of time and place; or if the injury import fcandal, by publicly acknowledging the offence; and frequently the two are conjoined. The calling one a bankrupt is not, in Arict fpeech, a verbal injury, as it does not affect the perfon's moral character; yet, as it may hurt his credit in the way of bufinefs, it fornds him in an action of damages, which mult be brought before the judge-ordinary. A real injury is inflicted by any fact, by which a perfon's honour or dignity is affected; as friking one with a cane, or even aiming a blow without Itriking; fpitting in one's face; alluming a coat of arms, or any other mark of diftinction proper to another, \&c. The compofing and publifhing defamatory libels may be reckoned of this kind. Real injuries are tried by the judge-ordinary, and punithad either by fine or imprifonment, according to the demerit of the offenders.
40. After having hortly explained the feveral crimes punihable by our law, this treatife may be concluded with a few obfervations on criminal jurifdiction, the forms of trial, and the methods by which crimes may be extinguilhed. Criminal jurildiction is founded, 1. Ratione domicilii, if the defender dwells within the Criminal territory of the judge. Vagabonds, who lave no cer- jurifiicii tain domicile, may be tried wherever they are apprehended. 2. Ratione delicti, if the crime was committed within the territory. Treafon is triable, by the Englilh law, in any county that the king fhould appoint ; and, by a temporary act now expired, treafon committed in certain Scots counties was made triable by the court of jufficiary, wherever it thould fit.
41. No criminal trial can proceed, unlefs the perfon What pe accufed is capable of making his defence. Abfents fons are r therefore cannot be tried; nor fatuous nor furious triable. perfons, durante furore, even for crimes committed while they were in their fenfes. For a like reafon, minors who had no curators, could not, by the Roman law, be tried criminally; but our practice confiders every perfon who is capable of dole, to be alfo fufliciencly qualificd for making his defence in a criminal trial.
42. No perfon can be imprifoned in order to fand Commit. trial ment.
trial fur any crime, ivithout a wartant in writing expreffing the caufe, and proceeding upon a fubfcribed information, unlefs in the cale of indignities done to judges, riots, and the other offences fpecially mentioned in 1701, c. 6 . Every prifoner committed in order to trial, if the crime of which he is accufed be not capital, is entitled to be releafed upon bail, the extent of which is to be modified by the judge, not exceeding 12,000 merks Scots for a nobleman, 6000 fur a landed gentleman, 2000 for every other gentleman or burgefs, and 600 for any other inferior perfon. That perfons who, either from the nature of the crime with which they are charged, or from their low circumftances, cannot procure bail, may not lie for ever in prifon untried, it is lawful for every fuch prifoner to apply to the criminal judge, that his trial may be brought on. The judge muft, within 24 hours after fuch application, iffue letters directed to meffengers, for intimating to the profecutor to fix a diet for the prifoner's trial, within 60 days after the intimation, under the pain of wrongous imprifonment: And if the profecutor does not indit within that time, or it the trial is not finifhed in forty days more when carried on before the jufticiary, or in thirty when before any other judge; the prifoner is, upon a fecond application, fetting forth that the legal time is elapled, entitled to his freedom, under the fame penalty.
43. Upon one's committing any of the groffer crimes, it is ufual for a juftice of the peace, theriff, or other judge, to take a precognition of the facts, i. e. to examine thofe who were prefent at the criminal act, upon the fpecial circumflances attending it, in order to know whether there is groun 1 for a trial, and to ferve as a direction to the profecutor, how to fet forth the facts in the libel; but the perfons examined may infift to have their declarations cancelled before they give teltimony at the trial. Jultices of the peace, theriffs, and magiftrates of boroughs, are allo authorized to receive informations, concerning crimes to be tried in the circuit-courts; which informations are to be tranfmitted to the juftice-clerk 40 days before the fitting of the refpective courts. 'Co difcourage groundlefs criminal trials, all profecutors, where the defendet was abfoived, were condernned by ftatute, in cofls, as they thould be modified by the judge, and befides were fubjected to a fmall fine, to be divided between the fife and the defender: And where the king's advocate was the only purfuer, his informer was made liable. This fufficiently warrants the prefent practice of condemning vexatious profecutors in a pecuniary mulk, though far exceeding the ftatutory fum.
44. The forms upon trial in criminal accu\{ations, differ much from thofe obferved in civil aftions, if we except the cafe of fuch crimes as the court of feffion is competerat to, and of leifer offences tried before inferior courts. The trial of crimes praceeds either upan indictment, which is fometimes ufed when the perfon to be tried is in prifon ; or by criminal letters iffaing from the fignet of the jufticiary. In either cafe, the defender muft be ferved with a full copy of the indictment or letters, and with a lift of the witneffes to be brought againft him, and of the perfons who are to pafs on the inqueft, and 15 free days muft intervene between his being fo ferved and the day of appearance.

When the trial proceeds upon criminal letters, the private profecutor muit give fecurity, at railing the let. ters, that he will report them duly executed to the jufticiary, in terms of 1535, c. 35. ; and the defender, if he be not already in prifon, is, by the letters, required to give caution, within a certain number of days after his citation, for his appearance upon the day fixed for his trial: And if he gives none within the days of the charge, he may be denounced rebel, which inters the forfciture of his moveables.
45. That part of the indictment, or of the criminal letters, which contains the ground of the charge sgainft the defender, and the nature or degree of the punilhment he ought to fuffer, is called the libel. All libels muft be fpecial, fetting forth the particular facts inferring the guilt, and the particular place where thefe facts were done. The time of committing the crime may le libelled in more general terms, with an alternative as to the month, or day of the montll : but as it is not practicable, in moft cafes, to libel upon the precife circumftances of accellion that may appear in proof, libels againft accelfories are fufficient, if they mention, in general, that the perfons profecuted are guilty art and part.
46. The defender in a criminal trial may raife letters of exculpation, for citing witnclles in proof of his defences againft the libel, o: of his objections againt any of the jury or witnelles; which mult be executed to the fame day of appearance with that of the indictment or criminal letters.
47. The diets of appearance, in the court of jufti- Diets of ciary, are peremptory: the criminal letters mult be appearance called on the rery day on which the defender is cited: and hence, if no accufer appears, their effeet is loft, inflania perit, and new letters mult be raifed. If the libel, or any of the executions, flall to the profecutor appear informal, or if he be difident of the proof, from the ablconding of a neceflary witnefs, the court will, upon a motion made by him, defert the diet pro loco et sempore; after which new letters become allo neceffary. A defender, who does not appear on the very day to which he is cited, is declared fugitive ; in confequence of which his fingle efcheat falls. The defender, fifter his appearance in court is called the pannel.
48. The two things to be chiefly regarded in a criminal libel, are, 1 . The relevancy of the facts, i. e. their fufficiency to infer the conclulion; 2. Their truth. The confideration of the firf belongs to the judge of the court; that of the other, to the jury or allize. If the facts libelled be foumd irrelerant, the pannel is difmified from the bar; if relevant, the court remits the proof thereof to be determined by the jury; which muft confift of 15 men picked out by the court from a greater number, not exceeding 45 , who have been all fummoned, and given in lift to the defender at forving him with a copy of the libel.
49. Crimes cannot, like debts, be referred to the Probation defender's oath ; for nu perfon is compellable to fwear of crimen againft himfelf, where his life, limb, liberty, or etlate is concerned, nor even in crimes which infer irfamy; becaule une's good name is, in right cftimation, as valuable as his life. There is one exception however to this rule in trying the crime of ufury, whith may be
i $\quad$ i
Scotland.
Lem-r
prowed by the ufurct's own oath, notwilhtanding the rule, hemo : nnctur jurare in fuam zurpi!uainem. Crimes therefose are in the gencral cafe proveable only by the difender"s free confelfon, or by writing, or by witnel?es. No extrajudicial confellon, untefs it is adhered to by the pannel in judgement, can be admitted as evilema.
Socai crim:nis.

Yerdict of alize. aciad, who may gain or lofe by the event of the trial. Socii criminis, or affociates in the fame chime, are not admitted againt one another, excent either in crimes aymint the ftate, as treafon; in occult crimes, where other witneff-s cannot be had, as forgery; or in thefis or depredations committed in the Highlands. The tellimony of the private party injured may be received againf the panncl, where the king's advocate is the only profecutor, if from the nature of the crime, there muft needs be a ponury of witnefies, as in rape, robbery, \&ic.

5\%. After all the witnefies have been examined in court, the jury are fhut up in a room by themfelves, where they mult continue, excluded from all correfpondence, till their verdict or judgement be fubferibed by the foreman (or chancellor) and clerk; and according to this verdict the court pronounce fentence, either abfolving or condemring. It is not nectifay, by the law of Scotlard, that a jury fhould be unanimous i. finding a perfon guilty; the narroweil majonty is as fufficient againft the pannel, as for him. Jurits cannot be punithed on account of an erroneous verdict, either for or againft the pannel.
52. Though the proper bufinefs of a jury be to inquire into the truth of the facts found relevant by the court, for which reafon they are fometimes calle 1 the inguef? yet, in many cafes, they judge allo in matters of law or relevaricy. Thus, though an objection againt a witnefs fhould be repelled by the court, the jurv are under no necelfity to give more credit to his teftimony than they think juft: And in all trials of art and part, where fpecial facts are not libelled, the jury, if they return a general verdit, are indeed judges not only of the truth, but the relevancy of the facts that are froorn to by the witneffes. A general verdich, is that which finds in general terms, that the pannel is guilty or not guilty, or that the libel or defences are proved or not proved. In a fpecial verdict, the jury finds certain facts proved, the import of which is to be afterwards connidered by the court.
53. Criminal judges muft now fufrend for fome time the execution of fuch fentences as affest life or limb, that fo condemmed criminals, whofe cafes deferve favour, may have accefs to apply to the king for mercy. No fentence of any court of judicature, fouth of the river Forth, importing either death or demembration, can be executed in lefs than 30 days; and, if north of it in lefs than 40 days, after the date of the fentence. But corporal punillments, lefs than death or difmembering, e. g. whipping, pillory, \&c. may be infiicted eight days after fentence on this ile Forth, and twelve days after fentence beyond it.
Extinction of crimes.
54. Crimes are extinguifted, 5. By the death of the criminal: both becaufe a dead perfon can make
no defence, fo that his triai is truly a judging upon the hearing of one iile; and becaufe, though his guilt fhould be ever fo notorious, he is after death carried beyond the reach of human penalies: Such trials tleerefore can have no effect, but to pumith the inno. cent heir, contraty to that moft equitable rule, Culpa tene: fios aufores. 2. Crimes may be exiinguilhed by a remition from the fovereigr. Euta acmiiion, though it fecures the delinquent from the public refentraent, the exercife of which belongs to the crown, canno: cut of the party injured from his claim of damages, over which the crown has no prerogative. Whower therefore founds on a remifion, is liable in damages, to the private profecutor, in the fame manner as if ho had been tried and found guilty. Even general acts of indemnity paiied in parliament, thourh they lecure againt fuch penalties as law infitats upon the criminal merely fer modu'n prence, yet do not agaimt the payment of any pecuniary fine that is given by flatutc to the party injured, nor again? the demand of any claim competeut to him in name of damages.
55. Lefler injuries, which cannot be properly faid to affect the public peace, may be extingu thed, either by the private party's exprefsly forgiving him, or by his being reconciled to the offender, atter receiving the injury. Hence arifes the rule, Difinmataone tollizur injuria. But where the offence is of a higher nature, the party injured, though be may pais from the profecution, in fo far as his private interelt is colwerned, carnot preclude the king's advocate, or procuratorfifcal. from infiting ad vinditam protlicam.
55. Crimes are alfo extinguifhed by prefcription, Preferip. which operater by the mere lapfe of time, without tion. any act either of the fovereign or of the private fufferer. Crimes preferibe in 20 years; bui in patticular crimes, the prefription is limited by fatute to a thorter time. No perfon can be profecuted upon the act againit wrongous imprifonment, after tbree years. High treafon, committed within his majefty's dominions, fuffers likewife a triennial prefcription, if indiament be not found againt the traitor within that time. All actions brought upon any penal fatute made or to be made, where the penalty is appropriated to the crown, expire in two years after committing the offence; and where the penalty goes to the crown or other profecutor, the profecutor mult fue with n cne year, and the crown within two years after the year ended. Certain crimes are. without the aid of any fatute, extinguithed by a fhorter prefcription than tisenty years. By our old law, in the cafes of rape, ro'sbery, and hamefucken, the farty injured was not heard after a filence of twenty-four hours; from a prefumption, that perfons could not be fo grofsly injured, without immediately complaining: And it is probable, that a profecution for thefe crimes, if delayed for any conderable time, would be caft even at this day, or at lealt the punimment reftricted. Leffer injuries fuffer alfo a fhort prefcription; law prefuming forgivenefs, from th:e nature of the offence, and the filence of the party. The particular fuace of time fufficient to eftablith this prefumption muft be determined by the judge, according to circumftances.

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## L A W

Law- Lat>-Language. In England all law proceedings Language. were formerly written, as indeed all public proceedings were, in Norman or law French, and even the arguments of the counfel and decifions of the court were in the fame barbarous dialect. An evident and fhameful badge, it mult be owned, of tyranny and foreign fervitude; being introduced under the aufpices of William the Norman, and his fons: whereby the obfervation of the Roman fatirift was once more verified, that Gallia caufdicos docuit facunda Britannos. This continued till the reign of Edward III. ; who, having employed his arms fuccefffully in fubduing the crown of France, thought it unbefeeming the dignity of the tictors to ufe any longer the language of a vanquilhed country. By a flatute, therefore, paflied in the 36th Comment year of his reign, it was enacted, that for the future all pleas flould be pleaded, thown, defended, anfwered, debated, and judged, in the Englifh tongue; but be entered and enrolled in Latin : In like manner as Don Alonfo X. king of Cafile (the great-grandfather of (ur Edward III.) obliged his fubjects to ufe the Caililian tongue in all legal proceedings; and as, in $\mathbf{1 2 8 6}$, the German language was eftablinhed in the courts of the empire. And perhaps, if our legillature had then direched that the arits themfelves, which are mandates from the hing to his fu'jects to perform certain acts if to appear at ccrtain places, floould have been framed

## L A W

in the Englifh language, according to the rule of our Lawnancient law, it had not been very improper. But the Language. record or enrolment of thofe writs and the proceedings thereon, which was calculated for the benefit of pofterity, was more ferviceable (becaufe more durable) in a dead and immutable language than in any flux or living one. The practifers, however, being ufed to the Norman language, and therefore imagining they could exprefs their thoughts more aptly and more concifely in that than in any other, fill continued to take their notes in law Frencl? ; and of courfe, when thofe notes came to be publifhed, under the denomination of reports, they were printed in that barbarous dialect ; which joined to the additional terrors of a Gothic black letter, lias occafioned many a ftudent to throw away his Plowden and Littleton, without venturing to attack a page of them. And yet in reality, upon a nearer acquaintance, they would bave found nothing very formidable in the language; which differs in its grammar and orthography as much from the modern French, as the diction of Chaucer and Gower does from that of Addifan and Pope. Befides, as the Englifh and Norman languages were concurrently ufed by our anceftors for feveral centuries together, the two idioms have naturally aflimilated, and mutually borrowed from each other : for which reafon the grammatical cont uction of each is fo very much the fame, tha: I apprehend an

## L A W

 [70ミ] L A W Englifhman (with a week's preparation.) would underAtand the laws of Normandy, collected in their grand conftumicr, as well, if not better, than a Frenchman bred within the walls of Patis.The Latin, which fucceeded the Frencls for the entry and enrolment of pleas, and which contined in ufe for four centuries, anfwers fo nearly to thee Englifin (oftentimes word for word) that it is not at all furprif. ing it fhould generally be imagined to be totally fabricated at home, with little more art or trouble than by adding Roman terminations to Englith words. Whereas in reality it is a very univerfal dialect, fpread throughout all Europe at the irruption of the northern nations; and particularly accommodated and moulded to anfwer all the purpo?es of the lawyers with a peculiar exactnefs and precifion. This is principally owing to the fimplicity, or (if the reader pleafes) the poverty and baldncis of its texture, calculated to exprefs the ideas of mankind jult as they arife in the human mind, without any rhetorical fourilhes, or perplexed ornaments of ftyle : for it may be obferved, that thofe laws and ordinances, of public as well as private communities, are generally the moft eafily underfood, where ftrength and perficuity, not harmony or elegance of expreffion, have been principally confulied in compil. ing them. Thefe northern nations, oü rather their legilators, though they refolved to make ufe of the Latin tongue in promulging their laws, as being more durable and more generally known to their conquered fubjects than their own Teutonic dialects, yet (either through choice or neceflity) have frequently intermixed therein fome words of a Gothic original: which is, more or lefs, the cafe in every country of Europe, and therefore not to be imputed as any peculiar blemith in our Englith legal latinity. The truth is, what is generally denominated law-Latin is in reality a mere technical language, calculated for eternal duration, and ealy to be apprehended both in prefent and future times; and on thofe accounts bett fuited to preferve thofe memorials which are intended for perpetual rules of action. The rude pyramids of Egypt have endured from the earlieft ages, while the more modern and more elegant Itructures of Attica, Rome, and Palmyra, have funk beneath the flroke of time.

As to the objection of locking up the law in a ftrange and unknown tongue, this is of little weight with regard to records; which few have occalion to read, but fuch as do, or ought to, underfand the rudiments of Latin. And befides, it may be obferved of the lawLat:n, as the very ingenious Sir John Davis obferses of the law-French, "that it is fo very eafy to be learned, that the meaneft wit that ever came to the fudy of the law doth come to underftand it almoft perfectly in ten days without a reader."

It is true, indeed, that the many terms of art, with which the law abounds, are fufficiently harfly when Latinized (yet not more fo than thofe of other fciences), and may, as Mr Selden obferves, give offence "to fome grammarians of fqueamifh ftomachs, who would rather choofe to live in ignorance of things the moft ufeful and important, than to have their delicate ears wounded by the ufe of a word unknown to Cicero, Salhuft, or the other writers of the Auguftan age." Yet this is no more than muft ur avoidahly happen when things of mo'ern ufe, of which the Romans had no

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idea, and confequently no phrafes to exneefs them, Lan-
 puzzle the mor elatieal feholar to find an appo lletion, in his pure Latinity, for a conllable, a recurd, or a deed of feuffment : it is therefure to be impu:ed as much to necelfity as ignorance, that they were fiyled in our forentic dialect, conflabularius, recordwo, aid feof fomeriums. Thus again, another uncouth word of our ancient laws (for I defend not the ridiculous barbarifins fometimes introduced by the ignorance of modern prafifers), the fubitantive murdrum, or the verb murdrare, however harfh and unclallical it may feem, was necellarily framed to exprefs a particular offence; lince no other word in being, occidere, interfictere, necare, or the like, was fufficient to exprefs the intention of the criminal, or quo animo the act was perpetrated; and therefore by mo means came up to the motion of murder at prefent entertained by law; viz. a killing with malice aforethought.

A fimilar neceflity to this produced a fimilar effect at Byzantium, when the Roman laws were turned into Greek for the ufe of the oriental empire; for without any regard to Attic elegance, the lawyers of the imperial courts made no feruple to trantlate fide commif-


 0 0.E\%8ioy ; and the like. They fludied more the exact and precife import of the words, than the neatnefs and delicacy of their cadence. And it may be fuggeited, that the terms of the law are not more numerous, more uncouth, or more difficult to be explained by a teacher, than thole of logic, phyfics, and the whole circle of Ariftotle's philofophy; nay, even of the politer art of architecture and its kindred fludies, or the fcience of rhetoric itfelf. Sir 'Thomas More's famous legal queftion contains in it nothing more difficult, than the definition which in his time the philofophers currently gave of their materia prima, the groundwork of all natural knowledge; that it is neque quid, neque quantun, neque quale, neque aliquid corum quibus ens determinatur; or its fubfequent explanation by Adrian Heereboard, who, aflures tis, that materia prima non eft corpus, neque per formam corporeitatis, neque per fimpliccm eftentiam: eft tamen ens, et quidem fubftantia, licet incompleta; halctque actum ex fe entitativum, et fimul ef potentia fubjectiva. The law, therefore, with regard to its technical phrafes, ftands upon the fame footing with other itudics, and requetts only the fame indulgence.

This technical Latin continued in ufe from the time of its firlt introduction, till the fubverfion of our an. cient conftitution under Cromwell : when, among many other innovations in the law, fome for the better and fome for the worle, the language of our records was altered and turned into Englifh. But, at the reftoration of King Charles, this novelty was no longer countenanced; the praclifers finding it very difficult to exprefs themfelves fo concifely or fignificaitly in any other language but the Latin. And thus it continued without any Cenfible inconvenience till about the year 17.30, when it was again thought proper that the proceedings at law fhould be done into Englifh, and it was accordingly fo ordered by tlatute 4 Geo I1. c. 26. This was done, in order that the common perple might have knowledge and undertanding of what 4 U was
r.. $\because$ :as aitoged or done for and asamit them in the procefs and pleadings, the judgerrent and catries in caule. Which purpoie it is doubsul how well it has anforered ; but there is reafon to fofpect, that tie people, are now, aftcr many years expeticnce, aitogcther as ignorant in mattets of law as before. On the othe: hand, thele inconveriences have already aufifen from the alteration; that now many clerks and atocreys are ha:dly able to read, much lefs to under1tand, a record cren of fo medern a date as the reign of George I. Ard it has n:uch enhanced the expence of all jegal procecings: for fince the practicrs are onfined (For the fake of the ftamp duties, which are :hereby con'idecably increafed) to write only a lated rumber of words in a hhect; and as the Englif? language, through the multitede of its particles, is much more verbufe than the Latin; it fullows, that the number of fheets mut be very much augmented by the change. The tranilation alfo of technical phrafes, and the names of writs and other procefs, were found to be fo very ridiculous (a writ of mifi prius, quave impedit, ficri facias, labcas corpus, and the relt, not being capable of an Englift drefs with any degree of ferioufricti), that in two years time a new act was obliged to be made, 6 Geo. II. c. 14. which allows all technical words to contimue in the ufual language, and has thereby defeated every beneficial purpofe of the former ftatute.

Trial hy IHager of Lis, (sadiatio legis;) a §pecies of trial, in the Englim law, fo called, as another fpecies is fyled "wager of battel," raáiatio duelli, (fee B.tT. TEL) ; becaufe, as in the wager of battel, the defendant gave a pledge, gage, or vadium, to try the caufe by battel; fo here he was to put in fureties or oadios, that at fuch a day he uill make his law, that is, take the benefit which the law has allowed him. (See the article Triais). For our anceftors confidered, that there were many cafes where an innocent man, of good credit, miglt be overborne by a multitude of falfe witneffes; and therefore eftablimed this fpecies of trial, by the oath of the defendant himfelf: for if he will abfolutely fwear himlelf not chargeable, and appears to be a perfon of reputation, he thall go free, and for ever acquitted of the debt, or other caufe of action.
Blackif.
Comment.
'lhe manner of waging and making law is this. He that bas waged, or given fecurity to make his law, brings with him into court eleven of his neighbours: a cuftom which we find particularly deferibed fo early as in the league between Alfred and Guthrun the Dane; for by the old Saxon conflitution every man's credit in courts of law depended upon the opinion which his neighbours had of his veracity. The defendant then, ftanding at the end of the bar, is admonithed by the judges of the nature and danger of a falfe oath. And if he Atill perfilts, he is to repeat, this or the like oath: "Hear this, ye juftices, that I do not owe unto Richard Jones the fum of ten pounds, nor any penny thereof, in manner and forms as the faid Richard hath declared againft me. So belp me God." And thereupon his eleven neighbours or compurgators fiall ayow upon their oaths, that they believe in their confciences that he faith the truth; fo that himfelf mult be fworn de fidelizate, and the eleven de credulitate.

In the old Sivedifh or Gothic confitution, wager
of law was not only permitted, as it is in crimeinal cales, unlefs the fact be extremely clear againit the prifoner ; but was allo abfolutely recquized, in many cionil cafes: which an author of their orra sery juftly Stiernbock charges as being the fource of frequent perjury. This, lit. ix.c. 1. he tells us, was owing to the Popin ecclelaatics, who intreduced this method of purgation from their canon law ; and, having fown a plentiful crop of eaths in all judicial proceedings, reaped afterwads an ample harvell of perjuries: for perjuries were punilhad in part by pecuniary fines, payable to the coffers of the church. But with us in E:gland wager of law is never reģuired; and then only admitted, where an action is brought upon fuch matters as may be fuppofed to be privately tranfacted between the parties, and wherein the defendant may be prefumed to have made fatis. faction without being able to prove it. Therefore is is only in actions of debt upon fimple contract, or for amercement, in actions of detinue, and of account, where the debt may have been paid, the goods reflored, or the account balanced, without any evidence of either. And by fuch wager of law (when admitted) the piaintiff is perpetually barred ; for the law, in the fimplicity of the ancient times, prefumed that no one would forfwear himfelf for any worldly thing. Wager of law, however, lieth in a real action, where thee tenant alleges he was not legally fummoned to appear, as well as in mere perfonal contracts.

The wager of law was never permitted but where the defendant bore a fair and unreproachable character; and it was alfo confned to fuch cafes where a debt might be fuppofed to be difcharged, or fatisfaction made in private, without any witnefles to attelt it : and many other prudential relirietions accompanied this indulgence. But at length it was confidered, that (even under all its reltrictions) it threw too great a temptation in the way of indigent or prolligate men : and therefore by degrees new remedies were devifed, and new forms of action were introduced, wherein no defendant is at liberty to wage his law. So that now no plaintif need at all apprehend any danger from the hardinefs of his debtor's confcience, unlefs he voluntarily choofes to rely on his adverfary's veracity, by bringing an obfolete, inftead of a modern action. Therefore, one fthall hardly hear at prefent of an action of $d e b t$ brought upon a fimple contract : that ber ing fupplied by an action of trefpafs on the cafe for the breach of a promife or aflumffit; wherein, though the fpecific debt cannot be recovered, yet damages may, equivalent to the fpecific debt. And, this being an action of trefpafs, no law can be waged therein. So, inflead of an action of detinue to recover the very thing detained, an action of trefpals on the cale in trover and converfron is ufually brought; wherein, though the horfe or other fecinic chattel cannot be had, yet the defendant hall pay damages for the converfion, equal to the value of the chattal; and for this trefpafs alfo no wager of law is allowed. In the room of actions of account, a bill in equity is ufually filed: wherein, though the defendant anfwers upon his oath, yet fuch oath is not conclufive to the plaintiff; but he may prove every article by other evidence, in contradiction to what the defendant bas fworn. So that wager of law is quite out of ufe, being avoided by the mode of bringing the action; but fill it is not out of force.

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Cuftom- And therefore, when a new fiatute inhlicts a penaly, houle Laws. and gives an action of debt for recorering it, it is wfual to add, " in which no wager of law ftall be al- lowed :" otherwife a hardy delinquent might eccape any penalty of the law, by fwearing he had never incurred, or clle had difcharged it.

Cufom-Houfe Laws. The expedient of exacting duties on goods imported, or exported, has been adopted by every commercial nation in Europe. The attention of the Britifl legilature has not been confined to the object of railing a revenue alone, but they have attempted by duties, exemptions, drawbacks, bounties, and other regulations, to direct the national trade into thofe channels that contribute moft to the public benefit. And, in order to obtain every requitite information, all goods, exported or imported, whether liable to duty or not, are required to be entered at the repective cultom-houles; and, from thefe entries, accounts are regularly made up of the whole Britil trade, diftinguifing the articles, their quantity and value, and the countries which fupply or receire them.

The objects of the Britilh legillature may be reduced to the following heads.

Firft, 'To encoutage the employment of Britili fhipping and feamen, for the purpofe of fapplying our nary when public exigencies require.

Secondly, To increafe the quantity of money in the nation, by prohibiting the exportation of Bitith coin, by encouraging exportation, and difcouraging importation, and by promoting agriculture, filheries, and manufactures. For thefe purpoles, it is penal to entice certain marufacturers abroad, or cxport the tools ufed in their manufactures: the exportation of ras materials is, in moft inflances, prohibited; and their importation permitted free from duty, and fometimes sewarded with a bounty. The exportation of fome goods, manufactured to a certain length only (for example white cloth), is loaded with a duts, but permitted duty free when the manufacture is carried to its full extent. The importation of rival manufactures is loaded with heary duties, or abfolutely prohibited. Thefe reftrictions are moll fevere towards nations with which the balance of trade is fuppoled againft us, or which are confidered as our moft formidable rivals in power or commerce. Upon this principle the commerce with France, till lately, laboured under the heavieft reftrictions.

Thirdly, To fecure us plenty of neceffaries for fubfillence and manufacture, by difouraging the exportation of fome articles that confume by length of time, and regulating the corn trade according to the exigencies of the feafons.

Fourthly, To fecure the trade of the colonies to the mother country, and preferve a mutual intercourfe, by encouraging the produce of their thaple commodiliec, and reltraining their progrefs in thele manufactures which they reccive from us in exthange.

The foamain of our commercial regulations is the fumous aft of navigation, which was firlt enacted during the time of the Commonwealth, and adopted by the forl parliament after the Kencration. The febftance of this å, and fubfequent amendmerts, is as follows:

1. Goods from Afia, Africa, and Ancrica, may not
be imported, except in Britifh thips duly navigated, or lhips belonging to the Britifh plantations; and they can only be imported from the place of their proluction or mamuldeture, or the port where they are utually firt fhipped for tranfportation. Goods of the Spanilis or l'urtuguele plantations, inported from Spain and Portugal in Britih thips, bullion, and fome other inconfiderable articles, are excepted.

The reftriction on European goods is not univerfal, but extends to feveral of the buikicit articles. Ruffian goods, mafts, timber, boards, falt, pitch, roln, tar, hemp, flax, raifins, figs, prunes, ulives, oil, corn, lugar, potafhes, wine, and vinegar, may not be imported, except in hips belonging to Great Britain or Ireland, legally mamed; nor 'lurkey goods and currants, except in finips Britifn built; or in thips belonging to the country where thefe goods are produced or manufactured, or firf thipped for exportation, and, if insported in foreign thips, they pay alien's duty.

In order to entitle a thip to the privileges of a Britilh 1hip, it muft be built is Britain, and belong entirely to l3ritith fubjests; and the mafter, and threefourths of the mariners, muft be Britilh fubjests, except in cale of death, or unavoidable accidents. In time of war, the proportion of Britifh masiners rom quired is generally confined to one-fourth; and the fame proportion only is required in the Greenland filhery.

No goods may be imported into, or exported from, the plantations in Afia, Africa, or America, except in flips built in Britain, lrelaind, or the plantations, or prize thips, manned by Pritifh fubjects, duly regitered, and legally navigated.

The following goods, enumerated in the act of navigation and fubfequent acts, way not be exported from the plantations, except to fome other plantation, or to Britain: 'Tobacco, cotton wool, indigo, ginger, fullic, and other dying wood, molalles, hemp, copper ore, beaver $\AA$ ins and other furs, pitch, tar, turpentine, malls, yards, and bolfprits, coffee, pimento, cocoanuts, whale fins, raw filk, pot and pearl athes. Rice and fugar were formerly comprehended in this lift, but their exportation is now permitted under certain re\&rictions.

Iron may not be imported to Errope, except to Ireland ; and none of the non-enumerateil may be imported to any country north of Cape Finiterre, excen the bay of Bifcay and Ireland.
2. For the more cffectual prevention of fmaggling, no goods may be imported in veliels belonging to Britifl fubjects; and no wine, in any vefiel whatever, unlefs the matter have a manifent on board, containing the name, meafure, and built of the thip, the place to which it belongs, and a diftinet enumeration of the goods on board, and places where they were laden. If the fhip be cleared from any place under his majefty's dominione, the manifeft mult be attetled by the chief officer of the cultoms, or chicf magitrate, who is required to tranfmit a cony thereof to the phace of deftination. Shipmafters mall deliver copies of this manifeft to the firft cufomloufe olfiner whan gocs on hoard within four leagues of the thoze, and allo to the firft wha goes on board within the limits of ariy port, and mull deliver the oricinal manifent to the cultomhoufc at their arrival, and make seport of their cargo

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upon oath. If the report difagree with the manifelt, or either difagree with the cargo on board, the fhipmalter is liable in the penalty of 2001 . The proprietors of the goods muft enter them, and pay the duties within 20 days; otherwile they may be carried to the cuftomhoufe, and fold by auction, if not relievcd within fix months; and the overplus of the value, after paying duty and charges, paid to the proprietors.
3. The importation of cattle, beef, mutton, and pork, except fronz Ireland, woollen cloths, malt, and various articles of hardware, cutlery, and earthen ware, is prohibited: Alfo the following goods from Germany and the Netherlands; olive oil, pitch, tar, potafhes, rofin, falt, tobacco, wines, except Rhenifh wine, and Hungary wines from Hamburgin.
4. The importation of various other goods is reftricted by particular regulations, refpecting the time and place of importation, the packages, the burden of the fhip, the requifition of a licenfe, and other circumAtances.

To guard more effectually againft clandeftine trade, the importation of fome articles is only permitted in Chips of a certain burden, whofe operations are not eafily concealed. Spirits mull be imported in thips of 100 tons or upwards, except rum, and fpirits of Britich plantations, which are only reltricted to 70 tons; wine, 60 tons; tea, tobacco, and fnuff, 50 tons; falt, $t 0$ tons. Wine, fpirits, and tobacco are alfo rellicted in refpect of the packages in which they may be imported.
5. Diamonds and precious ftones, flas, flax feed, linen rags, beaver wool, wool for clothiers, linen yarn unbleached, and moll diugs ufed in dyeing, may be imported duty free.
6. All goods imported are liable to duties, except fuch as are exprefsly exempted. The revenue of cufoms is of great antiquity in Britain, but was newmodelled at the reftoration of Charles II. A fubfidy of tonnage on wines, and of poundage, or is. per pound value of other goods, was granted during the king's life, and, after feveral prolongations, rendered perpetual. A book of rates was compofed for afcertaining thefe ralues; and articles not rated paid duty according to the value, as affirmed upon oath by the importer. If the goods be valued too low by the imnorter, the cuftomhoufe oflicer may feize them, upon paying to the proprictor the value he fiwore $t 0$, and 10 per cent. for profit; fuch goods to be fold, and the overplus paid into the cuftoms. Various additional duties have been impofed; fome on all goods, fome on particular kinds; fome "according to the rates, fome unconnected with the rates; fome with an allowance of certain abatements, fome without any allowance ; the greater part to be paid down in ready money, and a few for which fecurity may be granted; often with variations, according to the flip's place and circumftances of importation. The number of branches amounted to upwards of 50 ; and fometimes more than 10 were chargeable on the fame articles. By this means, the revenue of the cultoms has become a fubject of much intricacy. The inconveniences which this gave rife to are now removed by the confolidation act ; which appoints one fixed duty for each ar-
ticle frce from fractions, inflead of the various branches to which they were formerly fubject.
7. Goods of moft kinds may be exported duty free when regularly entered; and thofe that have paid duty on importation are generally entitled to drairtack of part, fometimes of the whole, when re-exported within three years, upon certificate that the dutics were paid on importation, and oath ot their identity. In fome cafes, a bounty is given on manufactured goods, when the materials from which they are manufactured have paid duty on importation; and manufactures fubject to cacife, have generally the whole or part of the excife duties returned.
8. The following goods are prohibited to be ex. ported; white alhes, horns, unwrought hides of black cattle, tallow, corn, brafs, copper, engines for knitting flockings, tools for cotton, linen, woollen, filk, iron and fteel manufactures, wool, woolfells, wool len yarn, fullers earth, fulling clay, and tobacco-pipe clay.
9. The object of the laws refpecting the corn trade is to enccurage agriculture, by not only permitting the free exportation, but rewarding it with a bounty when the prices are low, and checking the importation by a heavy cuty; and to prevent fcarcity, by prohibiting the exportation when the prices are high, and permitting importation at an eafy duty. Various temporary laws have been enacted for thefe purpofes, and Cometimes other expedients employed in times of fcarcity, fuch as prohibiting the diftillery from corn, and manufacture of ftarch.
10. Bounties are allowed on the exportation of refined fugar, fail cloth, linen under limited prices, filk ftuffs of Britifl manufacture, cordage, fpirits when barley is under 245. beef, pork, and the following kinds of fith, falmon, herrings, pilchards, cod, ling, flake, and fprets.

Various other bounties are allowed for the encouragement of our fifheries. Ships from 150 to $3=0$ tons employed in the Greenland whale filhery, and conforming to the regulations prefcribed, are allowed 3os. per ton. Veffels employed in the herring finhery receive 20s. per ton, befides a bounty on the herrings caught and cured, amounting in fome cales to 4s. per barrel. Other bounties are granted to a limited number of the moft fuccefsful reffels employed in the herring and Newfoundland filheries, and in the fouthern whale fifhery.

It is unneceffary and impracticable, in this place, to enter into a full detail of our cuffomhoufe laws. Indeed, all that can be admitted into a work of this kind, mull convey but very imperfect information; and even that little becomes ufelels in a fhort time from alterations in the law. We have therefore only marked the general outlines in the prefent article; which, however, will be fufficient to enable the reader to judge of the principles upon which the Britib legiflature has acted. How far the means employed have contributed to the ends propofed, and hou far the ends themfelves are always wife; or whether a trade encumbered by fewer rellictions would not prove more extenfive and beneficial ; has often been a fubject of difcuflion.

Mercantile Laws. The laws relating to commercial

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aritime and maritime affairs approach nearer to uniformity tbrough the different countries of Europe, than thofe on other fuljects. Some of the fundamental reyulations have been taken from the Roman law; others have bien fuggefted by experience, during the progrefs of commerce ; and the whole have been gradually reduced to a fyttem, and adoptad into the laws of trading nations, but with fome local varietiss and exceptions.

The Britith legiflature has enacted many flatutes reSpecting commerce; yet the greater part of our mercantile law is to be collected from the decifions of our courts of juftice, founded on the culfom of merchants. A proof of fuch cuftom, where no direct flatute interferes, determines the controverfy, and becomes a precedent for regulating like cafes afterwards. The exinence of a cullom not formerly recognized, is, in England, determined by a jury of merchants.

The moit common mercantile contracts ate thofe het:seen buyer and feller; between factor and employer; between partners; between the owners, maflere, mariners, and freighters of flips; between infurers and the owners of the fubject infured; and between the parties concerned in tranfacting bills of exchange. See Factorage, Saie, Partiership, Insuraicl, Bill, \&c. and the next article.

Maritime Latrs. The moft ancient fyttem of maritime laws is that of Rhodes, which was in force during the time of the Grecian empire, and afterwards incorporated into the Roman law. Although, in fome parts, not applicable to the prefent flate of trade, and, in others, now hardly intelligible, it contains the groundwork of the moft equitable and beneficial rules obferved in modern commerce. A like fylfem was fet forth bs Richard I. of England, called thie Statutes of Oleron; and another, by the town WiWy, in the ifland of Gothland. From thefe fyflems, improved and enlarged in the courfe of time, our general maritime law is derived. The jurifdiction of matters purely maritime belongs, in England, to the court of admiralty, which proceeds on the civil law ; but their proceedings are fubject to the controul, and their decifions to the review, of the fuperior courts.
We fhall here confider the obligations which fubfirt between the mafters or owners of fhips, the freighters, and the furnithers of provifions or repairs.
I. Mafers and Freighters. A charter party is'a contract between the mafler and freighters, in which the hip and voyage is cefcribed, and the time and conditions of performing it are afcertained.

The freight is moft frequently determined for the whole voyage, without refoect to time. Sometimes it depends on the time.
In the former cafe, it is either fixed at a certain fums for the whole cargo; or fo much per ton, barrel bulk, or other weight or meafure; or fo much per cent. on the value of the cargo. This laft is common on goods fent to America; and the invoices are produced to atcertain the value.

The burden of the fhip is generally mentioned in the contract, in this mamer, one hundred tons, or thereby; and the number mentioned ought not to differ above ; tons, at mofl, from the exact meafurc. If a certain fum be agreed on for the freight of the fhip, it munt all be paid, a!though the fhip, when meafured, fhould
prove lefs, unlefs the burden be suarranted. If the Mraritims thip be freighted for tranforting catte, or tlaves, at to much a head, and fome of them die on the pallige, frcight is only due for fuch as are delivered alive; but, if for lading them, it is due for all that were put on board.

When a whole thip is freighted, if the matter fuffers any other goods befides thofe of the freighter to be put on board, he is liable for damages.

It is common to mention the number of days that the flip tha!l continue at each port to load or unload. The expreffion ufed is, work weather days; to fignify, that Sundays, holidays, and days when the weather ftops the work, are not reckoned. If the flip be detained longer, a daily allowance is often agreed on, in name of demurrage.

If the voyage be completed in terms of the agrecment, without any inisfortune, the mater has a right to demand payment of the freight before he delivers the goods. But if the fafe delivery be prevented by any fault or accident, the partics are liable, according to the following rules.

If the merchant do not load the flip within the time agreed on, the malter may engage with another, and recover damages.

If the merchant load the flip, and recal it after it has fet fail, he mult pay the whole fieight; but if he unload it before it fets fail, he is liable fur damages only.

If a merchant loads goods which it is not lawful to export, and the thip be prevented from proceeding on that account, he mult pay the freight notwithflanding.
If the flipmafter be not ready to proceed on the voyage at the time agreed on, the merchant may load the whole, or pait of the cargo, on board another fhip, and recover damages; but chance, or notorions accident, by the marine law, releales the matler from damages.

If an embargo be laid on the flip before it fails, the charter party is difolved, and the merchant pays the expence of loading and unloading ; but if the embargo be only for a fhort limited time, the voyage fall be performed when it expires, and neither party is liable for damages.

If the fhipmafter fails to any other port than that agreed on, without neceflity, hic is liable for damages; if through necelfity, he muft fail to the port agrced on, at his own expence.

If a hhip be taken by the enemy, and retaken or ranfomed, the charter-party continues in force.

If the mafter transfer the goods from his own thip to another, without neceflity, and they perith, he is liable for the value; but if his own thip he in imminent danger, the goods may be put on board another hip at the rink of the owner.

If a hhip be freighted out and home, and a fum agreed on for the whole voyage, nothing is due till it return; and the whole is laik if the thip be lof un the return.

If a cortain fum be fipecified for the homeward royage, it is due, althougl the fator abroad fhould have no goods to fend liome.

In the cafe of a llip freighted to Madeira, Carolina, and home, a particular freight fixed for the home-

Aarrime ward voyagc, and an option referved for the factor at Laws. Carolina to decline it, unlefs the thip arrived before If of March: the dhipmatter, forefeeing he could not arrive there within tliat time, and might be difappointed of a freight, did not go there at all. He was found liable in damages, as the obligation was abfolute on his part, and conditional only on the other.

If the goods be damaged without fault of the fhip or mafter, the owner is not obliged to receive them and pay freight, but he muft either receive the whole, or abaidon the whole; he cannot choofe thofe that are in beft order, and reject the others. If the groods be damaged through the infulficiency of the thip, the maller is liable for the fame; but, if it be owing to ftrefs of weather, he is not accountable. It is cuftomary for fluipmafters, when they fufpect damage, to take a proted asainft wind and weather, at their arrival. But as this is the declatation of a party, it does not bear credit, unlefs fupported by collateral circumilances.

If part of the goods be thrown overboard, or taken by the enemy, the part delivered pays freight.

The thipmafter is accountable for all the goods received on board, by himfelf or mariners, unlefs they perilh by the act of God, or of the king's enemies.

Shipmafters are not liable for leakage on licuors; nor accountable for the contents of packages, unlefs packed and delivered in their prefence.

Upon a principle of equity, that the labourer is worthy of his hire, differences arifing with regard to freight, when the cafe is doubtful, ought rather to be determined in favour of the fhipmafter.
2. Ship and Owners with Creditors. When debts are contracted for provifions or repairs to a fhip, or arife from a failure in any of the above-mentioned obligations, the thip and tackle, and the owners, are liable for the debt, as well as the maller.

By the mercantile law, the owners are liable in all cafes, without limitation; but by ftatute, they are not liable for embezzlement beyond their value of thip, tackle, and freight.

A flipmatter may pledge his thip for neceflary repairs during a royage ; and this hypothecation is implied by the maritime law when fuch debts are contracted. This regulation is necefiary, and is therefore adopted by all commercial nations; for, otherwife, the mafter might not find credit for neceflary repairs, and the thip might be loft. If repairs be made at different places, the laft are preferable.

The relief againf the thip is competent to the court of admiralty in England, only when repairs are furnithed during the courfe of a royage; for the neceflity of the cafe cytends no further. If a fhip be repaired at bome (e. g. upon the river Thames), the creditor is only entitled to relief at common law.

The creditor may fuc either the mafter or owners; but if he undertook the work on the feccial promife of the one, the other is not liable.

If the naller buys provinons on credit, the owners are liable for the debt, though they have given him money to pay them.

If a thip be mortgaged, and afterwards loft at fea, the owners mult pay the debt; for the mortgage is
only an additional fecurity, though there be no exprefs Maritir words to that purpofe in the covenant.

If a fhip be taken by the enemy, and ranfomed, the owners are liable to pay the rantom, though the ranfomer die in the hands of the captors.
3. Ouners of fbip and cargo wibl each other. There is a mutual obligation which fubfifts between all the owners of a thip and cargo. In time of danger, it is often neceffary to incur a certain lofs of part for the greater fecurity of the reft; to cut a cable; to lighten the hip, by throwing part of the goods over board; to run it athore; or the like: and as it is unreafonable that the owners of the thing expofed for the common fafety fhould bear the whole lofs, it is defraved by an equal contribution among the proprictors of the thip, cargo, and freight. This is the famous Lex Rhodia de jactu, and is now called a general overasc.

The cuftom of valuing goods which contribute to a general average, is not uniform in all places. They are generally valued at the price they yield at the port of deftination, charges deducted; and goods thrown over board are valued at the price they would have yielded there. Sailors wages, clothes and money belonging to paflengers, and goods belonging to the king, pay no general average; but proprietors of gold and filver, in cafe of goods being thrown overboard, contribute to the full extent of their intereft.

The following particulars are charged as general average: Damage fuftained in an engagement with the enemy; attendance on the wounded, and rewards given for fervice in time of danger, or gratuities to the widorrs or children of the llain; ranfom; goods given to the enemy in the nature of a ranfom; charges of bringing the fhip to a place of fafety when in danger from the enemy, or waiting for convoy ; charges of quarantine; goods thrown overboard; mafts or rigging cut ; holes cut in the thip to clear it of water; pilotage, when a leak is fprung; damage, when voluntarily run aground, and expence of bringing it atoat; goods loft by being put in a lighter; the long boat loft in lightening the thip in time of danger; hire of cables and anchors; charges of laying in ballaft, victualling, and guarding the fhip when detained; charges at law, in reclaiming the hip and cargo; intereft and commiffion on all thefe dimburfements.

Though goods put on board a lighter, and loft, are charged as a general average; yet if the lighter be faved, and the thip with the rell of the goods be loft, the goods in the lighter belong to their refpective propristors, without being liable to any contribu. tion.

If part of the goods be plundered by a pirate, the proprietor or fimpafter is not entitled to any contribution.
'The effential circumltances that conftitute a gencral averrge are thefe; the lofs mult be the effect of a voluntary action; and the object of that action the conzmon fafety of the whole. Quarantine, which is allowcd, feems not to fall within this defcription.
4. Quarantine. See guarancme.
5. DVrecks. See Wreck.
6. Imprefs. See limpeessivic.
7. Infurance. See Insuradick.

## I A W

Game-Lans. See the article G.intr.
Sir William Blackfone, treating of the alterations in cur laws, and mentioning franchifes granted of chafe and frce warren, as wrell to prelerve the breed of aniroals, as to indulge the fubject, adds, "From a fimilar principle to which, though the forell laws are now mitigated, and by degrees grown witirely obfolete; yct from this root has fprung a bafiard fip, known by the name of the game law, now arrived to and wantoning in its highett vizour : beth founded upon the fame unreaforatle notion of permanent property is wild creatures; and both productive of the fame tyranny to the commons; but with this difference, that the foreft laws eftablithed only one mighty hunter throughout the land; the game laws haze raifed a lithe Nimrod in evory manor. And in one re!pect the ancient law was much lefs unceafonable than the modern; for the king's grantee of a chale or free warren, might kill game in every part of his franchife; but now, though a freeholder of lefs than rool. a year is forbiddert to kill partridge upon kis oivn gfate, yet nobody elfe (not even the lord of the manor, unlefs he haih a grant of free warren) can do it whout commiting a $\operatorname{trefp} a / s$ and fub. jecting liemfelf to ar attion.

Under the article Garre, the deftroying fuch beafts and fowls as are ranked under that denomination, was obferved (upon the ald principles of the foreft law) to be a trefpafs and offence in all perfons alike, who have not authority from the cro:sn to kill game (which is royal property) by the grant of either a free warren, or at lealf a menor of their own. But the laws called the game laws have alfo intlicted additional punillments (chiefly pecuniary) on perfons guilty of this general offence, unlefs they be people of fuch rark or fortune as is therein particularly fpecified. All perfons, therefore, of what property or diftinction foever, that kill game out of their own territories, or even upon their own eftates, without the king's licence exprelled by the grant of a franchife, are guilty of the firt original otfence of encroaching on the royal prerogative. And thole indigent períns who do fo, without having fuch rank or fortune as is generally called a qualifration, are guilty, not only of the original offence, but of the aggravations alfo created by the flatutes for preferving the game: which aggravations are fo feverely punifhed, and thole puniffinents fo implacably inticted, that the offence againit the king is feldom thought of, provided the miferable delinquent can make his peace with the lord of the manor. The only rational footing upon which this offence, thus aggravated, can be confidered as a crime, $k$, that in low and indigent perfons it promotes idlenefs, and takes them away from their proper employments and callings : which is an offence againtk the public police and economy of the commonwealth.

The ftatutes for preferving the game are many and various, and not a little obfrure and intricate; it being remarked, that in one fatute only, 5 Amn. c. ${ }^{1} 4$. there is faife grammar in no fewer than fis places, befides other miltakes: the occafion of which, or what denomination of perfons were probably the penaters of thele flatutes, it is unneceffary here to inquire. It may be in general fifficient to obferve, that the gualifcations for killing game, as they are ifually called, or more properly the exemptions from the fenalties

## クir ] L A W

inflicted by the flatute law, are, I. The "naving a i.eehold eftate of Icol . per annum; there being fify times the property required to cnable a man to kill a partridge, as to vote for a knight of the lhirc. 2. A leafehold for 99 years of 150 . fer amum. 3. Being the fon and heir apparent of an efquire (a very loofe and ragne defcription) or perion of fupcrior degreg.4. Being the owner or keeper of a foreft, park, chafe, or warren. For unqualified perfons tranfgrefling thefe laws, by killing gance, ketping engines for that purpole, or even having game in their cultody, or for perfons (however qualified) that kill game or have it in poffelfion, at usfeafonable times of the year, or unfeafonable hours of the day or night, on Sundays or on Chriftmas day, there are various penalties afigned, corporal and pecuniary, by different llatutes (after mentioned), on any of which, but only on one at a time, the juftices may convict in a fummary way, or (in moft of them) profecutions may be carried on at the affizes. And, lafly, by ftatute 28 Geo. 1I. c. 12. no perfon, however qualified to kill, may make merchandife of this valuable privilege, by felling or expofing to fale any game, on pain of like forfeiture as if he had no qualification.

The fatutes above referred to are as follow: No perfon thall take pheafants or partridges with engines in another man's ground, without licenfe, on pain of sol. 1lat. If Hen. VIII. c. 33. If any terfon thall take or kill any pheafants or partridges with any net in the night time, they fhall forfeit $2=s$. for every pheafant, and ios, for every partridge taken : and hunting with fpaniels in ftanding corn, incurs a forfeiture of $40 \%$ 23 Eliz. c. 10. Thofe who kill any pheafant, partridge, duck, heron, hare, or other game, are liable to a forfeiture of 20s. for every fowl and hare; and felling, or buying to fell again, any hare, pleafant, \&c. the forfeiture is ios. for eacis hare, \&c. I Jac. I. c. $1 \%$. Alfo pheafants or partridges are not to be taken between the firt of July and the lall of Auguit, on pain of imprifonment for a month, unlefs the offenders pay 20s. for every pheafant, \&c. killed: and conflables, having a juftice of peace's warrant, may fearch fo: game and nets, in the poffeffion of perfons not quali. fied by law to kill game or to keep fuch nets, 7.lac. I. c. 11. Conftables, by a warrant of a juftice of peace, are to fearch houfes of fufpested perfors for game : and if any game be found upon them, and they do not give a good account how they came by the fame, they thall forieit for evcry hare, pheafant, or partridge, not under 5 s. nor exceeding 20 s. And inferior tradefinen hunting, Sic. are fubject to the penalties of the at, and may likewje be fued for trelpals. If officers of the army or foldiers kill game with. out leave, they forfeit 5l. an officer, and 105 , a fol. dier; 4 and 5 W . and तI. c. 23. Higylers, chapmen, carriers, innkecpers, victumllers, \&c. having in their culkody hare, pheafant, partridge, heath game, \&c. (except fent by fome perfon qualified to kill game), thall forfeit for cvery hare and fowl 5l. to be levied by diftefs and fale of their goods, being proved by cne witnefs, before a jaflice; and for want of dillrefs thall be conmitted to the howfe of correction for threc months: one moicty of the forfeiture to the informer, and the other to the poor. And felling game, or of fering the fame to fale, incurs the like penalty; wlere-

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in hare and other game found in a fhop, Sic. is adjudged an expoîng to fale: killing hares in the night is liable to the fame penalties and if any perlons thall drive wild fowls with nets, between the firll day of July and the firlt of September, they thall forfeit 5 s. for every fowl; 5 Ann. c. ${ }^{2}$ : $\partial$ Ann. c. 25 . If any ungualified perfon thatl keep a gun, he thall forfeit til.; and peafons being qualified may take guns from thole that are not, and break them; $i$ in and 22 Car. II. c. 25. and 33 Hen. VIII. c. 6. Ore juftice of peace, upon examination and proof of the offence, may commit the offender till he hath paid the forfeiture of 101. And perfons, n:ut qualitied by law, keeping dogs, nets, or other engines to kill game, being convicted thereof before a jultice of peace, thall forfeit $j$ l. or be fent to the houle of correction for three months; and the dogs, game, \&c. thall be taken from them, by the latute 5 Ann. If a perfon hunt upon the ground of another, lich other perfon cannot jultify hilling of his dogs, as appears by 2 Roll. Abr. 567 . But it was otherwife adjudged, Mich. 33 Car. II. in C. B. 2 Cro. 44 and lee 3. Lev. xxwiii. In actions of debr, qui tam, \&c. by a common informer on the flatute 5 Ann. for $15 l$. wherein the plaintiff declared on two feveral counts, one for 1ol. for killing two partridges, the other for 5 l. for keeping an engine to deltroy the game, not being qualified, \&c. the plaintiff had a verdict for 5 l. only: this action was brought by virtue of the fat. 8 Geo. I. See ftat. 9 Geo. I. c. 22. See likewife 24 Geo. II. c. 34. for the better prefervation of the game in Scotland. By the ftat. 26 Geo. II. c. 2. all fuits and actions brought by virtue of fat. 8 . Geo. I. c.-. for the recovery of any pecuniary penalty, or fum of money, for offences committed againf any law for the better prefervation of the game, thall be brought before the end of the fecond term after the offence committed.

By 28 Geo. II. c. 12 . perfons felling, or expofing to fale, any gakse, are liable to the penalties inflicted by 5 Ann. c. ${ }^{14}$. on higglers, \&xc. offering game to fale : and game found in the houfe or poffeffion of a poulterer, falefman, filhmonger, cook, or palfry cook, is deemed expofing thereof to fale.

By 2 Geo. III. c. 19. after the firit June 1762, no perfon may take, kill, buy or fell, or have in his cuilody, any partridge, between 1 ath February and ift September, or pheafant between if February and ift October, or heath fowl beewcen 1 It January and 20 th Auguf, or groufe between ift December and 25 th July, in any year; pheafants taken in their proper feafon, and kept in mews, or breeding places excepted: and perfons offending in any of the cales aforefaid, forfeit 5 . per bird, to the profecutor, to be recovered, with full cofts, in any of the courts at Weftminfer. By this act, likewife, the whole of the pecuniary penalties under the 8 Geo. I. c. 19. may be fued for, and recovered to the fole ufe of the profecutor, with double cofts; and no part thereof to go to the poor of the parilt.

By 5 George III.c. 14. perfons convicted of entering warrens in the night time, and taking or killing coneys there, or aiding or affiling therein, may be punilled by tranfuortation, or by whipping, fire, or imprifonment. Perfons convicted on this act, not liable to be convicted under any former act. This act does
not extend to the cellroving coneys $i$. the day tiras, on the fea and river banks in the counsy of Lincoln, \&c. No latisfaction to be made for damages occationed by entry, unlefs they exceed I - It may not be improper to mention an act lately made, and not yet repealed, riz. 10 Geo. II1. c. Ig. for prefervation of the game, which thows the impotance of the object. It is thereby enacted, That if any perron kill any hare, \&c. between funfetting and funrifing, or ufe any gur, \&c. for deAtroying game, he thall for the frot ofence be imprifoned for any time not exceeding fix nor lefs than three months: if guilty of a fecond offence, after conviction of a firlt, to be imprifoned for any time not excecring 12 months nor lefs than fix; and fhall alfo withir three days after the time of his conmitment, either for the firlt or for any other offence, be once puslicly whipped.

By 25 George III. c. 50 . and 31 George III. c. 21. every perfor in Great Britain (ihe royal family excepted), who Thall, after July 1. 1785, ufe any dog, gun, net, or other engine, for the taking or deftruction of game (not acting as gamekeeper), thall deliver in a paper or account in writing, containing his name and place of abode, to the clerk of the peace or his deputy, and annually take out a certificate thereof; and every fuch certifcate ftall be charged with a ftamp duty of 21. 25. (and ans additional 11, 1s. by 31 Gcorge III. c. 21.) making in the whole 31. 35.-Every deputation of a gamekeeper thall be regitered with the clerk of the peace, and fuch gamekeeper fhall amnully take out a certificate thereof; which certincate, fhall be charged with a famp duty of 105.6 d . (and an additional 10 s , 6d. by 3I Geo. III. c. 21), making in the whole il. 1s.-The duties to be under the management of the commiffioners of the flamp office.

From and after the faid itt of July 1785 , the clerk of the peace fhall annually deliver to perfons requiring the fame, duly ftamped, a certificate or licence according to the form therein mentioned, for which he fhall be entitled to demand is. for his trouble; and on refufal or neglect to deliver the fame, forfeit 201.Every certificate to bear date the day when iflued, and to continue in force till the ift day of July then following, on penalty of 20 .

After the ift day of July 1785 , any perfon that thall ufe any greyhound, hound, pointer, fetting dog, fpaniel, or other dog, or any gun, net, or engine, for taking or killing of game, without a certificate, is liable to the penalty of 201. And if any gamekeeper fhall, for the fpace of 20 days after the faid ift day of July, or if any gamekeeper thereafter to be appointed Shall, for the fpace of 20 days next after fuch appointment, neglect or refufe to regilter his deputation and take out a certificate thereof, he is liable to the penalty of 201.

The clerks of the peace are to tranimit to the ftamp office in London alphabetical lifs of the certificates granted in every year before the ift day of Auguft under penalty of 20l. Thefe lifts are to be kept at the itamp office in London, and there to be infpected on payinent of is.: And the commiffoners of the flamp duties are, once or oftener in every year, as foon as fuch lifts are tranimitted to them, to caufe the fame to be publified in the newfpapers circulating in each county, or fuch public paper as they thall think moft proper.

Gamekeepers

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Larr. Gamekeepers were firf introduced by the qualiitication act, 22 and 23 Car. II. c. 25. and fubfequent ftatutes have made a number of various regulations refpecting them. This autherifes lords of manors of the degree of efquire, to appoint gamekcspers, who fhall have power, within the manor, to feize guns, nets, and engines, kept by unqualified perfons to deftroy game.

By 5 Ann. c. 14. f. 14. lords and ladies of manors are authorifed to empower their gamekeepers to kill game; but prohibited the latter, under pain of three months imprifonment, from felling or difpofing of the game fo killed, without the confent of the lord or lady, under whofe appointment they acted.

By 3 Geo. I. c. II. no lord of a manor is to appoint any perfon to be a gamekeeper, with power to take and kill game, unlefs fuch perfon be qualified by law fo to do, or be truly and properly a fervant to the lord, or immediately employed to take or kill game, for the fole ufe or benefit of the faid lord. Offences againt this act to be punifhed with pecuniary fines.

Gamekeepers are enumerated among the different defcriptions of fervants, chargeable with the duty under 25 Geo. ILI. c. 43 .

If any gamekeeper, who thall have regittered his deputation, ard taken out a certificate thereof, fhall be changed, and a new gamekeeper appointed in his ftead, the firft certificate is declared null and void, and the perfon acting under the fame, after notice, is liable to the penalty of 201. And any perion in purfuit of geme, who thall refufe to produce his certificate, or to tell his name or place of abode, or fhall give in any falfe or fictitious name or place of abode to any perfon requiring the fame, who fhall have obtained a certificate, is liable to the penalty of 501 .

The certificates are not to authorize perfons to kill game at any time prohibited by law, nor to give any perfon any right to kill game, unlefs fuch perfon fhall be qualified fo to do by the laws now in being, but fhall be liable to the fame penalties as if this act had not paffed. [So that though by this act qualified and unqualified perfons are equally included, yet having a certificate does not give an unqualified perfon a right to kill game: the point of right fill ftands upon the former acts of parliament ; and any unqualified perfon killing game without a certificate, is not only liable to the penalty inflicted by this act, but alfo to all the former penalties relating to the killing of game, \&c.]

Witnefles refufing to appear on juftices fummons, or appearing and refufing to give evidence, forfeit 10 . The certificates obtained under deputations, not to be given in evidence for killing of game by a ganekeeper out of the manor, in refpect of which fuch deputation or appointments was given and made. Perfons counterfeiting ftamps to fuffer death as felons.

Penalties exceeding 20l. are to be recoyered in any of his majefty's courts of record at Weftmintter; and penalties not exceeding 20l. are recoverable before two juffices, and may be levied by difters. The whole of the penalties go to the informer.

By 40 Geo. I1I. c. 50 . perlons to the number of two or more, found in any field, \&ec. or otlier open or inelofed ground, between eight at night and fix in the morning, from the firf day of October to the firlt of February, or between the hours of ten at night and four in the morning, from firt February to firt Octo-

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ber, in eacli and every year, having any gun or engine to kill or take any hare, pheafant, partridge, heathfowl, commonl: called black game, or grous, commonly called red same, or any other game; or perfons aiding them with offenfive weapons, may be apprehended, and, on conviction before a jubtice, thall be decmed rogues and vagabonds, within the reaaing of $1_{7}$ Geo. III. c. 5 . \& c.

Military Lam. See Military and Marine.
LAW, Joms, the famous projector, was the eld. eft fon of a goldfmith in Edinburgh, by Elizabeth Campbell heirefs of Lauriefton near that city ; and was born about the year 1681 . He was bred to no bufinefs; but pollefled great abilities, and a very fertile invention. He had the addrefs, but when a very young man, to recommend himfelf to the king's minifters in Scotland to arrange the revenue accounts, which were in great diforder at the time of fettling the equivalent before the union of the kingdoms. The attention of the Scottifh parliament being allo turned to the contrivance of fome means for fupplying the kingdom with money, and facilitating the circulation of ipecie, for want of which the induftry of Scotland languifhed; he propofed to them, for thefe purpofes, the eftablifmment of a bank of a particular kind, which he feems to have imagined might Iflue paper to the amount of the whole value of all the lands in the country: but this fcheme the parliament by no means thought it expedient to adopt.

His father dying about the year $5>04$, Law fucceeded to the fmall eftate of Lauriefton; but the rents being infufficient for his expences, he had recourfe to gaming. He was tall and graceful in his perfon, and much addicted to gallantry and finery; and giving a fort of ton at Edinburgh, he weat commonly by the name of Beau Law. He was forced to tly his country, however, in the midit of his career, in confequence of having fought a duel and killed his antagonift ; and in fome of the French literary gazettes it is faid that he run of with a married lady. In his fliglit from juftice he vifited Italy; and was banifhed from Venice and Genca, becaufe he contrived to drain the youth of thefe cities of their money, by his fuperiority in calculation, that is, by being a cheat and a fharper. He wandered over all Italy, living on the event of the moff fingular bets and wagers, which feemed to be advantageous to thofe who were curious after novelty; but which were always of the molf certain fuccefs with regard to him . He arrived at Turin, and propofed his fyftem to the duke of Savoy, who faw at once, that, by deceiving his fubjects, he would in a fhort time have the whole money of the kingdom in his poffeffion: but that fagacious prince aking him how his fubjects were to pay their taxes when all their money flould be gone, Law was difconcerted, not expecting fuch a queition.

Having been banifhed from Italy, and thus repulfed at Turin, Law proceeded to Paris, where he was already known as a projector. In the lifetime of Louis XIV. he had iranfmitted his fchemes to Definatef and to Chamillard, who liad rejected them as dangerous innovations. He now propoled them to the Duc d'Orleans, who defired Noailles to examine them, to be as favourable in his report as poffible, and

Law. to remark fuch of then as were prazticaiste. Noaillcs called in the ailiftace of feveral merchants and bankers, who were averfe to the fyferm. Law then propofed the eftablifhonent of a bank, compofed of a company, with a fock of fix millions. Such an inftitution promifed to be very advantareous to commerce. An arret of the 21 March 1716 eftablifhed this bank, by authority, in favour of Law and his alociates; two hundred thoufand fhares were inatituted of one thoufand livres each; and Law depolted in it to the value of two or three thoufand crowns which he had accumulated in Italy, ly gaming or otherwifc. This eltablifhment rery much difpleafed the bankers, becaufe at the beginning bufinefs was tranfacted here at a very finall premium, which the old financiers had charged very highly. Many people had at firft little confidence in this bank; but when it was found that the payments were made with quicknefs and punctuality, they began to prefer its notes to ready money. In confequence of this, fhares rofe to more than 20 times their original value; and in 1719 their valuation was more than 80 times the amount of all the current fpecie in the kingdom. But the following year, this great fabric of falfe credit fell to the ground, and almoft overthrew the French government, ruining fome thoufands of families; and it is remarkable, that the fame defperate game was playing by the South fea directors in England, in the lame fatal year, 1720. Law being exiled as foon as the credit of his projects began to fail, retired to Venice, where he died in 1729 .

The principles upon which Law's original feheme was founded, are explained by himfelf in A Difcourfe concerning Money and Trade, which he publified in Scotland where (as we have feen) he firft propofed it. "The fplendid tut vilionary ideas which are fet forth in that and fome other works upon the fame principles ( Dr Adam Smith obferves), fill continue to make an impreffion upon many people, and have perhaps in part contributed to that excefs of banking which has of late been complaised of both in Scotland and in other places."
I. AW, EDMuNd, D. D. bilhop of Carlite, was born in the parifh of Cartmel in Lancafhire, in the year 1703 . His father uho was a clergyman, held a imall chapel in that neighbourhood; but the family had been fituated at Alisham, in the county of Wcftmorland. He was educated for lome time at Cartmel fhool, afterwards at the free grammar fchool at Kendal; from which lie went, very well inftrusted in the lcarning of grammar fchools, to St John's college in Cambridge.

Soon after taking his frift degree, he was elected felLow of Clrift college in that miverfity. During his refidence in which college, he became known to the public by a tranflation of Archbithop King's Elfay upon the Origin of Evil, with copious notes; in which many metaphyfical fubjects, curious and interelting in their own nature, are trated of wilh great ingenuity, learning, and novclty. To this work was prefixed, under the name of a preliminary differtation, a very valuable piece, written by the reverend Mr Gay of Sidney college. Our bihop alivays fpoke of this gentleman in terms of the greateft refpect. In the Bible and in the writings of $\mathrm{M}_{r}$ Locke, no man, lie wied to fay, was fo well verfed.

He alfo, whilt at Cbrift college, undcrtook and went through a very laborious part in preparing for the prefs an edition of Stephens's 'Thefurus. His acquaintance, during this his firt refidence in the univerfity, was princijally with Dr Waterland, the learned maller of Magdalen college; Dr Jortin, a name known to every fcholar; and Dr Taylor, the editor of the Demolthents.

In the year 1757 he was prefented by the univerfity to the living of Grayitock in the county of Cumberland, a rectery of about 3001 . a-year. The advowfon of this benefice belonged to the family of Howards of Grayftock, but devolved to the univerfity, for this turn, by rittue of an act of parliament, which transfers to the fe two bodies the nomination to fuch benefices as appertain, at the time of the vacancy, to the patronage of a Roman Catholic. The right, however, of the univerfity was contelted; and it was not till after a law fuit of two years continuance that Mr Law was fettled in his living. Soon after this, he marted Mary the daughter of John Chriftian, Ef $q$. of Unerigg, in the county of Curaberland; a lady whole character is remembered with tendernefs and efteem by all who knew her.

In : 743, he was promoted by Sir George Fleming, bilhop of Carlifie, to the archdeacony of that diacele; and in 1745 went from Graytock to relide at Salkeld, a pleafant village upon the banks of the river Eden, the rectery of which is annexed to the archdeaconry. $M_{r}$ Law was not one of thofe who lofe and forget themfelves in the country. Dusing his refidence at Salkeld, he publifhed Confiderations on the Theory of Religion: to which were fubjoined, Reflections on the Life and Character of Chrift; and an Appendix concerning the ufe of the words Soul and Spirit in holy Scripture, and the ftate of the dead there defcribed.

Dr Keene held at this time, with the bihnopric of Chefter, the materthip of Peterhoule in Cambridge. Defiring to leave the univerfity, he procured Dr Law to be elected to fucceed him in that fation. This took place in the year 1756 ; in which year Dr Law refigned his archdeaconry in favour of Mr Eyre, a bro-ther-in-law of Dr Keene. Two years before this, he had proceeded to his degree of doctor of divinity: in his public exercife for which, he defended the doctrine of what is ufually called the "fleep of the foul."

About the year 1760 , he was appointed head librarian of the univerfity; a fituation which, as it procured an ealy and quick accefs to books, was peculiarly agreenble to his taite and habits. Some time after this, he was alfo appointed cafuitical profeffor. In the year 1762, he fuficied an irreparable lofs by the death of his lady; a lofs in itfelf every way aflicting, and rendered more fo by the fituation of his family, which then confifted of eleven children, many of them very young. Some years afterwards, he reccired feveral preferments, which were rather honourable expreffrons of regard from his friends, than of much advantage to his fortune.

By Dr Cornwallis, then bihop of Litchfield, afterwards archbintop of Canterbury, who had been his pupil at Chrift college, he was appointed to the archdeaconry of Staffordihire, and to a prebend in the church of Litchfield. By his old acquaintance Dr Green, bifhop of Lincoln, be was made a prebendary

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Law. of that church. But i:2 the year 1;57, by the interrention of the duhe of Nerscafte, to ubofe intereft in the merrorable contert for the high ftewardhip of the univerfity, he had adhered in oppoftion to fome temptations, he obtained a flall in ile church of Dubsum. The year after this, the duke of Graften, who had a flort time before been clected chanceilor of the univer. fity, recommended the mafter of Peterhoufe to his majefty for the bihopric of Carline. This recommendation was made not only without Colicitation on his pait or that of his friends, but without his knowicdge, until the duke's intention in his favour was fignified to him by the archbilhop.

About the year 1777, Biflop Law gave to the public a handfome edition, in three volumes quarto, of the works of Mr Locke, with a Life of the Author, and a Preface. Mr Locke's writings and charater he held in the higheft efteem, and feems to have drawn from them many of his own principles: He "as a diciple of that fchool. About the fame time be publifhed a trac?, which engaged fome attention in the controverfy concerning fublcription; and he publifhed new editions of his two principal works, with confiderable additions, and fome alterations.

Dr Law held the fee of Carline almoft 19 years; during which time he twice only omitted fpending the fummer months in his diocefe at the bifhop's refidence at Rofe Caftie; a fituation with which he was nuch pleafed, not only on account of the natural beauty of the place, but becaufe it reftored him to the country in which he had feent the beft part of his life. In the year 1787 he paid this vifit in a flate of great weaknefs and exhauftion: and died at Rofe Caftle about a month after bis arrival there, on the $14^{\text {th }}$ day of Auguf, and in the 84th year of his age.

The life of the bihop of Carline was a life of inceffant reading and thought, almoft entirely directed to metaplyfical and religious inquiries. Befides the works already mentioncd, he publifhed, in 1734 or $1735,{ }^{7}$ a very ingenious Inquiry into the Ideas of Space, Time, \&ic. in which be combats the opinions of Dr Clarke and his adherents on thefe fubjects: but the tenet by which his name and writings are principally diffingu: Il $_{1}$ ed, is "that Jefus Chrift. at his fecond coming, will, by an act of his power, reflore to life and confcioufnefs the dead of the human fpecies, who by their own nature, and without this interpufition, would remain in the flate of infenfibility to which the death brought upon mankind by the fin of Adarn had reduced them." He interpreted literally that faying of St Paul, 1 Cor. xv. 2I. "As by man came death, by man came alfo the refursection of the dead." This opinimon had no other effect upon his own mind than to increafe his reverence for Chriftianity, and for its divine Founder. He retaired it, as he did his other fpeculative opinions, without laying, as many are wont to do, an extravagant ftrefs upon their importance, and without pretending to more certainty than the fubject al. lowed of. No man formed his own conclufions with more freedom, or treated thofe of others with yreater candour and equity. He never quarrelled with any perfon for c '月tering from him, or confidered that dif. ference as a fuflicient reafon for queflioning any n'atr's fincerity, or judging meanly nf his underflandirg. He was zealoufly attacled to religious libetty, becaufe he
thous lit that it leads to truth; yet from his heart he lused peace. Hut be did not perceive any repugnancy in thete two things. There was nothing in his clevation to his bihopric wilich he lpoke of with nore pleafure, than its being a proof that decent freedom of in zuiry was not difcouraged.

He was a inan of great foftuefs of manuers, and of the mildelt and mof tranquit difpofition. His voice was never raifed ahove its ordiary pitch. His countenance feemed never to have been ruflled; it prefervad the fame kind and compofed afpect, truly indicating the calmnefs and benignity of his temper. He had an utter diflike of large and mixed companies. N'ext to his books, his chief fatisfaction was in the ferious converfation of a literary companion, or in the compaly of a few friends. In this fort of fociety be would open his mind with great unreferveluefs, and with a peculiar turn and fpriglatinefs of expreflion. His jerfo: was low, lnt well formed: his complexion fair and delicate. Except occafional interruptions by the goui, he had for the greatell part of his life cinjoyed good health; and when not confined by that diffemper, was fuil of motion and activity. About nine years before his death, he was greatly enfeebled by a fevcre attack of the gout in his ifumach; and a fiort time afier that, loft the ufe of one of his legs. Notwithftanding his fondnefs of exercife, he religned himielf to this change, not only without complsint, but without any fenfible diminution of his cheerfulnefs and good humour. His fault (for we are not writing a panegyric) was the general fault of retired and fludious charakters, too great a degree of inaction and facility in his public flation. The modefty, or rather bailfulnefs of his nature, together with an extreme unwillingnefs to give pain, rendered him fometimes lefs firm and efficient in the adminiftration of authority than was requifite. But it is the condition of human morality. There is an oppofition between fome virtues which feldom permits them to fubfift together in perfection.

The bilhop was interred in his cathedral church, in which a handlome monument is erected to his memory.
LAWBUR ROWS, in Scots Law. Sec Law, PartIII. No clexviii. 16.

LAWENBURG, Duchy of, a territory of Germany, in the circle of Lower Saxony, bounded by the duchy of Holltein on the north and welt, by the duchy of Mecklenburg on the eaft, and by the duchy of Lanenburg, from which it is feparated by the river Elbe, on the welt ; being about 85 miles long, and 20 broad. The chief towns are Lawenburg, Molen, Wittemburg, and Ratzeburg. It belongs to the electurate of Hanover.

Lawenburg, a city of Germany in the circle of Lower Saxony, and capital of a duchy of the fame name. It is a fmall but populous town, fitutated on the Elbe, under the brow of a very high hill, from whence there is a delightful profpect over the adjacent country. It has a caftle on an emincnce, and is convemient fur trade. E. Long. Ic. $\mathrm{I}^{1 .}$ N. Lat. 53. 36.

Iawerburg, a town of Germany in Farther Yumerania, and the chief place to the territory of the lame name belonging to the clector of Brandenburg.
I. AWLESS COURT, a court faid to be beld annually on the King's Hill at Rochford in Effex, on the

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Liwingen Wednefday morning after Michaehas day at cockcrowing, where they whifper, and have no candle, nor any pen and ink, but only a coal. Perfons who owe
fuit, or fervice, an I do not appear, forfcit double their rent every hour they are milfing.

This fervile attendance, Camden informs us, was impofed on the tenants for confiring at the like unfeafonable bour to raife a commotion. The court belongs to the honour of Raleigh, and to the earl of Warwick; and is callcd lawlefs, from its being held at an unlawful hour.
1.AWINGEN, a town of Germany, in the circle of Suabia; formerly imperial, but now fubject to the duke of Neuburg. Herc the dulie of Bavaria, in 1704 , fortilied his camp to defend his country againft the Britin forces and their allies commanded by the duke of Marlborough, who forced their intrenchments. It is leated on the Danube, in E. Long. 10. 29. N. Lat. 3. 32.

LAWN, a facious plain in a park, or adjoining to a noble leat. As to the dimenfions of a lawn: In a large park, it fhould be as extenfive as the ground will permit; and, if pollible, it hould never be lefs than 50 acres: but in gardens of a moderate extent, a lawn of 10 acres is fufficient; and in thofe of the largeft fize, 15 acres. The beft fituation for a lawn is in the front of the houfe: and here, if the houfe front the ealt, it will be extremely convenient ; but the moft defirable afpect for a lawn is that of the fouth-eaft. Is to the figure of the lawn, fome recommend an exast 〔quare, others an oblong fquare, fome an oval, and others, a circular figure : but neither of thele are to be regarded. It ought to be fo contrived, as to fuit the ground; and there fhould be trees planted for flase on the boundaries of the lawn, fo the fides may be broken by irregular plantations of trees, which, if there are not fome good profpects beyond the lawn, thould bound it on every fide, and be brought round pretty near to each end of the houle. If in thele plantations round the lawn, the trees are placed irreguiarly, fome breaking much forwarder on the lawn than others, and not crowded too clofe together, they will make a better appearance than any regular plantations can poflibly do; and if there are variety of trees, properly difpofed, they will have a good effect ; but orly thole which make a fine appearance, and grow large, ftraight, and handfome, fhould be admitted here. The moll proper trees for this purpofe, are the eim, oak, chefnut, and beech; and if there are fome clumps of evergreen trees intermixed with the others, they will add to the beauty of the whole, efpecially in the winter feafon; the belt forts for this purpofe are Lord Weymouth's pine, and the filver and fruce firs.

Lawn, in manufactures, a fine fort of linen, remarkable for being ufed in the fleeves of the clerical drefs of bithops.

LAWRENCE, St, the largelt river in North America, procerting from Lake Ontario, from which it runs a courfe of 700 miles to the Atlantic ocean.

From Lake Ontario to Montreal this river has the name o: Iroquois, and after taking a northealt courfe it cmbofums the illand of Montreal, above which it reseives Ottawas from the weit, forming feveral iflands of great fertility. From Montreal it takes the name of

St Larrence, and paflior, by Qucbec, it mects the tide more than 400 miles from the lea, and is ro far navigable for large vellels. Having received in its courfe St John'c, Scguina, Lefprairies, Trois Rivieres, and numberlefs other frnaller ftreams, it falls into the ocean at Cape Rofieres, by a mouth about 95 miles broad. The principal entrance into the gulf of St Lawrence from the Atlanic ocean, is between capes Ray and Breton. It ceatains a number of illands, viz. St John's, at its fouthern extremity, on the coalt of New Brunfo wick and Nova-Scotia; Anticolli, at the mouth of the St Lawrence, befides a number of fmall iflancs.

Prince Edward's ifland, about 120 miles in length, with a population of 8000 perfons, is allo in the guld of St Lawrence. Here a new fettlement was made by Lord Selkirk in 1803, compofed of a colony of em:grants, amounting to 800 , from the Highlands of Sco:land.

LAWSONIA, Egyptinn privet, a genus of plants belonging to the oftandria clafs; and in the na. tural method ranking with thole of which the order is doubtful. See Botany Index.

LAWYER, a counfellor, or one who is learned or fkilled in the law. See Counsellor, Barrister, and Serjeant.

LAY, a kind of ancient poem among the French, confilting of very thort verfes.

There were two forts of lays; the great, and the little. The firlt was a poem confiting of tweive couplets of verfes, of different meafures. The other was a poem confiting of fixteen or twenty verfes, divided into four couplets.

Thele lays were the lyric poetry of the old French poets, who were imitated by fome among the Englifh. They were principally ufed on melancholy fubjects, and are faid to have been formed on the model of the trochaic verfes of the Greek and Latin tragedies.

Father Morgues gives us an extraordinary inftance of one of thefe ancient lays, in his Treatife of French Poetry.

> Sur l'appuis du monde
> Que faut il qu'on fonde
> D'efpoir?
> Celte mer profonde,
> En debris feconde
> Fait voir
> Calme au matin, l'onde
> Et l'orage y gronde
> Le foir.

LAs-Brothers, among the Komanifts, thofe pious but illiterate perfons, who devote themfelves at fome convent to the fervice of the religious. They wear a different habit from that of the religious; but never enter into the choir, nor are prefent at the chapters; nor do they make any other vow except of conflancy and obedience. In the nunneries there are alfo lay fifters.

LAY-Man, one who follows a fecular employment, and has not entered into boly orders.

LAYERS, in Gardening, are tender thoots or twigs of trees, laid or buried in the ground, till, having ftruck root, they are feparated from the parent tree, and become diftinct plants.-The propagating trees by layers is done in the following manner: The branches of the trees are to be flit a little sray, and laid under

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the mould for about half a foot; the ground ftould be firit made very light, and after they are laid they flould be gently watered. If they will not remain eafly in the pofition they are put in, they mult be pegged down with wooden hooks: the beft feafon for doing this is, for evergreens, toward the end of Auguft, and, for other trecs, in the beginning of February. If they are found to have taken root, they are to be cut off from the main plant the fucceeding winter, and planted out. If the branch is too high from the ground, a tub of earth is to be raifed to a proper height for it. Sumc pare off the rind, and others twift the branch before they lay it, but this is not neceffary. The end of the layer thould be about a foot out of the ground; and the branch may be cither tied tight round with a wire, or cut upwards from a joint, or cut round for an inch or two at the place, and it is a good method to pierce feveral holes through it with an awl above the part tied with the wire.

LAYING THE land, in Navigation, the ftate of motion which increafes the diftance from the coaft, fo as to make it appear lower and fmaller, a circumftance which evidently arifes from the intervening convexity of the furface of the fea. It is ufed in contradiftinction to raifing the land, which is produced by the oppofite motion of approach towards it. See Land.
lazar House, or Lazaretto, a public building, in the nature of an hofpital, to receive the poor, and thofe afflized with contagious diftempers. In fome places, lazarettos are appointed for the performance of quarantine; in which cafe, thofe are obliged to be confined in them who are fufpected to have come from places infected with the plague.

LAYSTOFF, or Lowestoff, a town of Suffolk 117 miles from London, feems to hang over the fea, and its chief bufinefs is fifhing for cod in the North fea, and for herring, mackarel, and fprats, at home. The church is at fome diflance, but there is a chapel in the town. Having been a part of the ancient demefnes of the crown, this town has a charter and a feal, by the former of which the inhabitants are exempted from ferving on juries. Some take this to be the moft eaftern part of Britain.

LaZULI, or Lapis Lazvil, a fpecies of mineral belonging to the filiceous genus. See Mineralogy Index.

LEACHLADE, a town of-Gloucefterhire, 12 miles eat from Cirencefter, 29 miles from Gloucefter, and 60 from London. The river Thames waters it on the fouth and eaff fides, and divides it from Wilthire and Berkfhire. The Leach runs through the north fide of the parith. The Thames river is navigable for barges of 50 tons burden, but want of water during part of the year makes the navigation very uncertain. The church is a large handfome building, with double aifles, fupported by two rows of fluted pillars.

LEAD, one of the metals, of a white colour inclining to blue, the leaft ductile, the leaft elaftic, and the leaft fonorous. of the whole, but poffefing a confiderable degree of fpecific gravity. See Chemistry and Mineralogy Index.

White Lead, or Cerufe. See Chemistry Index.
Black LsAD, or Plumbago, a fpecies of nineral be-
longing to the clafs of Infammalier. Sec I.Ineerazogy Indix.

Milled Lead. See Chemistry Index.
Poifon of Lead. Sce Porsos.
Sheet Lead. Sce Plumbery.
LEAF, a part of a plant extended into length and breadth in fuch a manner as to have one fide ditinguißable from the other. This is Niller's definition. Linnaxus denominates leaves "the organs of motion, or mufcles of the plant." - The leaves are not merely ornamental to plants; they ferve very ufful purpofics, and make part of the organs of vegetation.

The greater number of plants, particularly trces, are furnithed with leaves: in muflirocms, and ihrubby horfe tail, they are totally wanting. Ludwic defincs leaves to be fibrous and cellular proceftes of the plant, which are of various figures, but generally extended into a plain membranaceous or ikinny fubftance. They are of a deeper green than the footfalks on which they fland, and are furmed by the expanfion of the vefliels of the falk, among which, in feveral leaves, the proper vefiels are diftinguifhed by the particular tafte, colour, and fmell, of the liquors contained with. in them.

By the expanfion of the veffels of the flalk, are pro. duced feveral ramifications or branches, which, crofsing each other mutually, form a kind of net: the meithes or interftices of which are filled up with a tender cellular fubilanice, called the pulp, pith, or parenchyma. This pulpy fubftance is frequently confumed by certain fmall infects, whilf the membranous ne: remaining untouched exhibits the genuine ikeleton of the leaf.

The net in quertion is covered externally with an epidermis or fcarf ikin, which appears to be a continuation of the fcarf $\mathbb{k k}$ in of the falk, and perhaps of that of the flem. M. de Saufure, a judicious naturalif, has attempted to prove, that this fcarf fin, like that of the petals, is a true bark, compofed itfelf of an epidermis and cortical net; thefe parts feem to be the organs of perfiration, which ferve to diflipate the fuperthoous juices.

The cortical net is furnihed, principally on the furface of the leaf, with a great number of fuck $k$ rs or abforbent veffels, deflined to imbibe the humidity of the air. The upper furface, turncd towards heaven, ferves as a defence to the lower, which looks downward; and this difpofition is fo effential to the vegetable economy, that, if a branch is overturned in fuch a manner as to deftroy the natural direction of the leavcs, they will, of themfelves, in a very fthort time, refume their former pofition; and that as often as the branch is thus overturned.

Leaves, then, are ufeful and neceflary organs; trees perifh when totally disefted of them. In general, plants Aript of any of their leaves, camot fhoot vigo. roully: wituefs thofe which have undergone the dcpredations of infects; witnefs, likewife, the very conimon practice of flripping off fome of the leaves from plants, when we would fufpend their growth, or diminith the number of their fhoots. This method is fometimes obferved with corn and the efculent granies; and, in cold years, is practifed on fruit trees and vines, to render the fruit riper and beticr coloured: but in

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this cafe it is proper to wait till the fruis liave acquired their full tulk, as the leaves contribute greatly to their grorith, but hinder, when too numerous, that exquilite rectifying of the juices, whict is fo neceflary to render them delicious and palatable.

When vegetation ceafes, the organs of perfpiration and infpiration become fuperticous. Plants, therefore, arc not always adomed with leaves: they produce new ones every year; and every year the greater part are totally divelted of them, and remain naked during the winter.
Leas Infat. See Cimex, Entonology Index.
LeAr-Skeletons. One help for acquiring a knowledge of the anatomy of plants, is the art of reducing leaves to $\mathbb{1 k}$ eletons, which may be done by expofing the leaves to decay for fome time foaked in water, by which means the fofter will be feparated from the internal harder parts. By carefully wiping, prefling and rinfing them, the harder parts may be obtained from the relt alone and entire. Some have been able to feparate the outer covering on both fides from the woody net, and cren to fplit the latter into two. A naturalif in the year 1645 firf conceived the idea of making leaf-feletons by employing decompofition for that purpofe, alliting it by feveral ingenious operations of art. When the method of producing thefe fleletons was publicly known, numberlefs preparations of them were every where attempted. So much did leaf-Reletons afterwards engage the attention of philofophers, that one Seligmanil wrote a treatife on the various methods which may be employed in their preparation.

The art alfo of raifing trees from leaves has been long known, the firt account of which was publifhed by Agoftino Mandirola, an Italian of the Francifcan order, who affures us that he produced trees from the leares of the cedar and lemon tree. In the garden of Baron de Munchbaufen, a young tree was obtained from a leaf of the limon à Rivo, which yielded fruit the fecond year: It is more than probable that the multiplication of the opuntia or Indian fig, firft fuggefted the idea of fuch experiments, for every joint of that plant when fluck into the earth, and properly nurtured, throws out roots and grows.

Leaf, in clocks and watches, an appellation given to the notches of their pinions.

Gold LeAf, ufually fignifies fine gold beaten into Hates of an exceeding thimefs, which are well known in the arts of gilding, \&e. See Gold Leff.

LEAGUE, a meafure of length, containing more or fewer geometrical paces, according to the different ufages and cuftoms of countries. A league at fea, Where it is chielly ufed by us, being a land meafure mofly peculiar to the French and Germans, contains 3000 gcometrical paces, or three Englift miles. The French league fometimes contains the fame meafure, and in fome parts of France it confifis of 3500 paces: the mean or common league confifts of 2.400 paces, and the little league of 2000 . The Spanith leagues ate larger than the French, 17 Spanift leagues making a degrce, or 20 French leagues, or $69 \frac{1}{2}$ Englifh thatute miles. The Dutch and German leagues contain each four geographical miles. The Perfian leagues are prctty near of the fame extent with the Spanifl.; that is, they are equal to four Italion miles, which is pretty rear to what Hercolotus calls the length of the

Perfian parafaug, which contained 30 fladia, eight Leag whereof, according to Strabo, make a mile. The Lea! work comes from leuca or leuga, an ancient Gaulifh word for an itinerary meafure, and retained in that fenfe by the Romans. Some derive the word leuca fromi $\lambda$ हvoos, "white;" as the Gauls, in initation of the Romans, marked the fpaces and diftances of their roads with white ftones.
League allo denotes an alliance or confederacy between princes and flates for their mutual aid, either in attacking fome common enemy, or in defending themfelves. The word comes from liga, which in the corrupt Latin was ufed for a confederacy: 鸟a quis cum alio ligatur.

Leagues, among the Greeks, were of three forts: I. Eлoion, Evvinxa, or Eigrm, whereby both parties were obliged to ceafe from hoffilities, without even molefting the allies of each other; 2. Exi $\mu x \neq 1 x$, whereby they engaged to lend affifance to each other in cafe of invafion; and, 3. $\Sigma_{v \mu \mu \alpha \alpha^{2}}$, whereby they encaged to have the fame friends and enemies, and to affit each other upon all occafions. All thefe leagues were confirmed with oaths, and imprecations, and facrifices. The victims molt generality ufed were a boar, ram, or goat, fometimes all three; and fometimes bulls and lambs. They cut out the tefficles of the animal, and ftood upon them while they fwore; and fome of the hair of the victim was difributed to all prefent. Then they cut the animal's throat, which was called ogrce tspus, in, in Latin, ferire fredus. This done, they repeated their oaths and imprecations, calling the gods to witnels the honelly of their intentions. A libation was then made of wine, which at this time was mixed, to imply their conjunction and union; while this was pouring out, they prayed that the blood of him who fhould break the treaty might be poured out in like manner. Upon thefe occations no part of the victim was eaten. Still further to increafe the folemnity of this obligation, the league was engraven upon brafs, fixed up in places of public concourle, and fometimes read at the folemn games. Some exchanged certain $\tau v \mu \mathcal{S o n}_{\alpha}$ or tefferce upon the occafion, and frequently fent ambaffadors on fome appointed day, to keep them in mind of their engagements to each other.

The ceremonies of the Romans in making leagues were performed by the Feciales. See Feciales.

Lescues of the Grifons, are a part of Switzerland, confifing of three fubdivifions, viz. the upper league, the league of the houle of God, and the league of the ten jurifdictions. See the article Grisoss.

The Lague, by way of eminence, denotes that famous one on foot in France, from the year 1576 to 1593. Its intent was to prevent the fucceffion of Henry IV. who was of the reformed religion, to the crown ; and it ended with his abjuration of that faith.

The leguers, or confederates, were of three kinds. The zealous leaguers aimed at the utter deftruction not only of the Huguenots, but alfo of the mininry. The Spanith leaguers had principally in view the transferring the crown of France to the king of Spain, or the infanta his daughter. The modcrate leaguers aimed only at the extirpation of Calvinifn, without any alteration of the government.

LEAK, at fea, is a hole in the Chip, through which the water comes in. A flup is faid to fring a leak

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when ate begins to leat or to let in the water. The manmer of fopping a leak is to put into it a plteg wrapoed in oakum and well tarred, or in a tarpawling clout, which keeps out the water, or nailing a piece of theet lead on the place. Seamen furretimes flop a leak by thru?ine a piece of falt beef into it. The fea water, fays Mr Boyle, being frefher than the brine imbibed by the beef, penetrates into its body, and caufes it to fwell fo as to bear ftongly againft the cdres of the broken pank, and thercby tons the influx of the water. A ready way to find a leak in a fhip is to apply the narrower end of a feaking trumpet to the ear, and the otler to the dide of the thip where the leak is fuppofed to be; then the noife of the water iffuing in at the leak will be heard diftinctly, whereby it may be difcovered.

LEAKAGE, the ftate of a vellel that leaks, or lets water or other liquid ooze in or out.

LeAkige, in commerce, is an allowance of 12 per cent. in the cuitoms, allowed to importers of wines for the wafte or damage it is fuppofed to have received in the paffage: an allowance of two barrels in 22 is alfrmade to the brewers of ale and beer by the excife office.

LEAKE, RICAARD, mafter gumer of England, was born at Harwich in 1629, and was bred to the fra. At the Refloration, he sas made mafter gunner of the Princefs, a frigate of 50 guns; and in the firft Dutch war ditinguihed himfelf by his mill and bravery in two extraordinary actions; one againtt 15 fail of Dutch men of war ; and another in 1657 againt two Danes is the Baltic, in which the commanding officers of the Princefs being killed or defperately wounded. the command, according to the rules of war at that time, fell to the gunner. In 1669 , he was promote.] to be gunner of the Royal Prince, a firft rate man of war. He was engaged, with his two fons Henry and John, in the battle againf Van Tromp, in 1673 ; when the Royal Prince had all her mafts thot away, near 400 of her men killed and difabled, and moit of her upper tice of guns dilinounted. As the lay thus like a wreck, a great Dutch man of war came down uoon her with two fire Ghips, either to burn or carry her off; and Captain Rooke, afterwards Sir George, thinking it impolfible to defend leer, ordered the men to fave their livec, and the colours to beftruck. Mr Leake hearing this, ordered the lieutenant off the quaring deck, and took the command upon himfelf, faying, "The Royal Prince fhall never be given up to the enemy while I am aiive to defend her." The undaunted fririt of the brave gianner infpired the fmall refidue of the hip's company with refolution; they returned with alacrity to the fight, and under the direction of this valiant guaner and his two fons funk both the fire @ips, and obliged the man of war to theer off; and having thus faved the Royal Prince, he brought her into Chatham. But Mr Leake's joy in obtaining this victory was damped by the lofs of Henry, his eldeft fon, who was killed near him. Soon after, Mr Leake was preferred to the command of a yacht, and alfo made gunner of Whitehall. In 1677 , he obtained a grant for life of the office of malter gunner of England, and ftorekeeper of the ordnance at Woolwish. By this poft he had full fcope for his genius.

He according's, among other things, invernice: the cufhee piece; and contrived to f.re a mortar by the blat of a piece, which has becn ufed ever dince. He was alfo the primeripal contriver of what the French call infornals, u'ed at the bombardment of S: Malo's in 1693 . Mr l.cake had a furprifing geuius for all inventions of this kind; and had frequent trials of fkill with French and Dutch gunners and enginecrs in Woolwich warren, at which King Charles I1. and the duke of York were often prefent, and he never failed to excel all his competitors : nor was he lefs $\mathbb{N}$ illed in the art of making compofitions for freworks; of which he likewife made frequent trials with equal fuccefs.

Leake, Sir Yoln, an Englih admiral, difinguilhed by his bravery and fuccefs, was born in 1656 , and Was tanght mathematics and gunnery by Mr Richard Leake his father, who was matler gunner of England. Entering early into the navy, he dintinguihed himfelf under his father in 1673 , in the memorable engagement between Sir Edward Spragg and Van Tromp, when but 16 years of are ; and being afterwards made captain, be fignalized himfelf, among other occafions, by executing the defperate attempt of convoying fome victuallers into Lendonderry, which onliged the enemy to raife the fiege; and at the fanous battle of La Hogue. In 1/32, being made commodore of a f.puadron, he deltroyed the French trade and fettlemeats at Newfoandland, and reftored the Englifn to the poifelion of the whole itland. O: his return he was created rear admiral; foon after, he was made vice admiral of the blue, and was afterwards knighted. He was engaged with Admiral Rooke in taking Gibraltar: foon after which, he particularly diftinguihed himfelf in the general engagement of Malaga; when commanding the leading fquadron of the van, confiting only of fix thips, he drove that of the enemy, confitting of $I_{3}$, out of the line of battle, fo difabled that they never returned to the fight. In 1705 he relieved Gibraltar, which the French had befieged by fea, and the Spaniards by land, fo feafonably, that the enemy was to liave attacked the town that very night in feveral places, and would undonbtedly have made themfelves mafters of it. Fire hundred Spaniards had, by the help of rope ladders, climbed up the rocks by a way that was thought inacceffible. At the fame time they had got a great number of boats to land $3=00$ men at the New Mole, who, by making a vigorous afiault on the fide next the fea, were to draw the garrifon to oppofe the attack, while the 500 conccaled men rulled into the town. Thefe being the next day drawn by hunger out of their ambufade, were dilcovered; on which Sir John affiaing tlee garrifon with failors and marines, they were attacked with fuch rigour, that, though they had taken an oath not to furrender to the Englifh, 190 common foldiers and 30 officers took quarter : 200 were killed on the fput; and the reft, who endeavoured to make their efcape, fell headlong down the rock. He was foon after made vice admiral of the white, and then wwice relieved that fortrefs. The laft time, he attackcd five fhips of the French fleet coming nut of the bay, of whom two were taken, and two run ahore and were deftroyed: Baron Pointi died foon after, of the wounds he received in the battle; and in a few days the enomy raifed the
leake fiege. In the year ryos Sir John was engaged in the reduction of Barcelona; and the next year relieved that Lea. city, when it was reduced to the laf extremity, and
obliged Iing Philip to raife the fiege. Soon after he took the city of Carthagena; from wherice proceeding to Alicant and Joyce, both thefe fubmitted to him; and he concluded the exploits of that year with the reduction of the city and ifland of Majorca. Upon his return home, Prince George of Denmark made him a prefent of a ring valued at 4001 . and he had the honour of receising 10501. from the queen as a reward for his fervices. Upon the unhappy death of Sir Cloudelly Shovei, in $170 \%$, he was made admiral of the white, and commander in chief of her majefty's fleet; and the next year, furprifing a convoy of the cnemy's corn, he fent it to Barcelona, and thus faved both that city and the confederate army from the danger of famine: foon after convoying the new queen of Spain to King Charles her confort, her majelty made him a prefent of a diamond ring of 5001. value. He then proceeded to the ifland of Sardinia, which he reduced to the obedience of King Charles; and foon after affifted the lord Stanhope in the conqueft of Minorca. Then returning home, he was appointed one of the council to the lord high admiral ; and in 1709 was made rear admiral of Great Britain. He was feveral times choten member of parliament for Rochefter; and in 1712 conducted the Englihh forces to take poffiefion of Dunkik. But upon the acceffion of King George I. he was fuperfeded, and allowed a penfion of 6001 . a-year. After this he lived privately till his death, which happened at his houfe in Greenwich in 1720 .

Leake, Stephen Martin, Efq; fon of Captain Martin, went through different ranks in the heralds office till he came to be garter. He was the firlt perfon who wrote profeifedly on our Englifh coins, two editions of his "Hiftorical Account" of which were publifhed by him with plates, under the title of Nummi Britannici Hiforia, London, $1726,8 \mathrm{vo}$. ; the fecond, much improved, London, ${ }^{1745}$, 8vo. He printed, in 1750, "The Life of Sir John Leake, Knight, admiral of the fleet," \&c. to whom he was indebted for a confiderable eftate; which the admiral devifed to truftees for the ufe of his fon for life; and upon his death to Captain Martin (who married Lady Leake's filter) and bis heirs: By which means it came to the Captain's fon; who, in gratitude to the memory of Sir .John Leake, wrote an accurate account of his life, of which only 50 copies were printed. In 1766 , he printed alfo 50 copies of "The Statutes of the Order of the Garter," 4to. He died in 1773; and was buried in his chancel in the parith church of Thosp in Effex, of which manor he was lord.

LEANDER, in poetic hiftory, a young man of Abydos in Afia. He ufed to fwim over the Hellefpont by night to vifit Hero his miftrefs, who fet forth a light to guide him: but in a tempefluous winter night he was drowned; upon which Hero feeing him dead on the thore, caft herfelf headlong from the tower, and died alfo. See Hero.
I. EAO, in Natural Hifiory, a mineral fubftance approaching to the nature of the lapis lazuli, found in the Eaft Indies, and of great ufe in the Chinefe por-
celain manufactures, as it afiords the finet blue they are poflefled of.

LEAP, in Mufic, is when the fong does not procced by conjoint degrees, as when between each note there is an interval of a third, a fourth, fifth, \&c.

Leap Yéar. See Year, and Chronology, No 24. Lozer's Leap. See Leucata.
LEAPING, or Vaulting, was an èxercife much ufed both amongft the Greeks and Romans. The Grecians called it A $\lambda \mu x$, and performed it with weights upon their heads and froulders. Sometimes they carried the weights in their hands, which were of different figures, but generally oval and made with holes or covered with thongs, through which the contenders put their fingers. There weights were called $\dot{\alpha} \lambda \pi$ rags. The contell was who could leap the highen and fartheft. The place from whence they jumped was called $\beta \times \pi n g$, and that to which they leaped, $\varepsilon ซ x \alpha \mu \mu s v \alpha$, becaufe the ground was there dug up. This exercife was performed in the fame manner by the Romans.

LEAR, the name of a Britih king, faid in old chronicles to have fucceeded bis farther Bladud, about A. M. 3160 . The fory of this king and his three daughters is well known, from Shakefpeare's excellent tragedy founded on it.

LEASE, from the French leifer, denitutere," to let," in law, a demife, or letting of lands, tenements, or hereditaments, unto another for life, term of years, or at will, for a rent referved.

A leafe is either written, called an indenture, deedroll, or leafe in writing; or by word of mouth, called leafe parole.

All eftates, intereAs of freehold, or terms for years in lands, \&ic. not put in writing and figned by the parties, thall have no greater effect than as eltates at will; unlefs it be of leafes not exceeding three years from the making; wherein the rent referved Alall be two thirds of the value of the thing's demifed. Leafes exceeding three years mult be made in writing; and if the fubflance of a leafe be put in writing, and figned by the parties, though it be not fealed, it fhall have the cffect of a leafe for years, \&c.

An affignment differs from a leafe only in this, that by a leafe one grants an intereft lefs than his own, referving to himelf a reverfion; in affignments he parts with the whole property, and the affignee flands to all intents and purpofes in place of the aflignor.

Lease, in Scots Law. See Tack.
Lease and Relecfe, a fpecies of conveyance ufed in the Englifh law, firf invented by Serjeant Muore, foon after the flatute of ufes, and now the moft common of any, and therefore not to be Maken; though very great lawgers (as particularly Mr Noy) hare formerly doubted its validity. It is thus contrived: A leafe, or rather bargain and fale, upon fome pecuniary confideration, for one year, is made by the tonant of the freehold to the lefiee or bargainee. Now this without any entolment, makes the bargainor fland feifed to the ufe of the bargainee, and vefts in the bargainee the $u f e$ of the term for a year; and then the flatote immediately annexes the pofeftion. He therefore, being thus in poffeffion, is capable of receiving a releafe of the frechold and reverfion, which

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mult be made to a tenant in poffeffion: and according. ly , the next day, a releafe is granted to him. This is held to fupply the place of livery of feilin; and fo a conveyance by leafe and releafe is faid to amount to a feoffment.
L. EASH, among fportfmen, denotes three creatures of any kind; but chiefly greyhounds, foxes, bucks, and hares.

The term lea/b alfo fignifies a line to hold in a hunting dog; and a fmall long thong of leather, by which a falconer holds his hawk.

LEASING-making, in Scots Law, the uttering of words tending to excite difcord between the king and his people; alfo called verbal fedition.

LEATHER, the fkin of feveral forts of beafts drefled and prepared for the ufe of rarious manufacturers, whofe bufinefs it is to make them up.

Dyeing of $L_{\text {eaquer }}$, Skins, d゙c. Blue is given by fleeping the fubject a day in urine and indigo, then boiling it with alum : or it may be given by tempering the indigo with red wine, and wathing the flins therewith. Red is given by walhing the fkins, and laying them two hours in galls, then wringing them out, dipping them in a liquor made with ligutrum, alum, and verdigris in water; and laftly, in a dye made of Brazil wood, boiled with ley. Purple is given by wetting the kins with a folution of roche alum in warm water; and, when dry again, rubbing them with the hand with a decoction of $\log$ wood in colder. Green is given by fmearing the $\mathbb{1 k i n}$ with fap-green and alum-water boiled. Dark green is alfo given with fteel flings and fal ammoniac fleeped in urine till foft, then fmeared over the fkin; which is to be dried in the fhade. Shy colour is given with indigo fteeped in boiling water, and the next morning warmed and fmeared over the $\mathbb{1}$ in. Vellow, by fmearing the fkin over with aloes and linfeed oil diffolved and ftrained; or by infufing it in weld. Orange colour is given by fmearing with fuftic berries boiled in alum water: or, for 2 deep orange, with turmeric.

Proceffes for Dyeing Leather Red and Yellow as practifed fin Turkey, with directions for Preparing and Tonning the Skins; as communicated ty Mr Philippo, a native of Armenia, who received from the Society for the Encouragement of Airls, b'c. one hundred pounds, and alfo the sold medal of the Society, as a reward for difeovering this fecret.

1. Firf Preparation of the Skins, both for Red and Yellow Leasher, by drefing therz in Lime. Let the fkins, dried with the hair on, be firft laid to foak in clean water for three days; let them then be broken over the flefl fide, put into frefh water for two days longer, and afterwards hung up to drain half an hour. Let them now be broken on the fleth fide, limed in cold line on the fame fide, and doubled together with the grain fide outward. In this flate they muft be hung up within doors over a frame for five or fix days, till the hair be loofe; which muft then be taken off, and the k ins returned into the lime pit for about three wceks. Take them out, and let them be well worked fleih and grain, every fixth or feventh day during that time : after which, let them be walhed ten times in clear water, changing the water at each wathing. They are next to be prepared in drench, as below mentioned.

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2. Second Preparation of the Skins for both the Red Leather. and Kellow Dyes ly drenching. After fqueezing the water out of the fikins, put them into a mixture of bran and water, warm as new milk, in the following proportions; viz. about three pounds of bran for five flkins, and water fuflicient to make the mixture moderately Huid, which will be about a gallon to each pound of bran. In this drench let the ikins lie three days; at the end of which time they muft be well worked, and afterwards returned into the deench two days longer. They mult then be taken out and rubbed between the hands; the water fqueezed from them, and the bran fcraped off clear from both fides of the fkins. After this they muft be again wathed ten times in clear water, and the water fyueezed out of them.

Thus far the preparatory procefs of all the flins, whether intended to be dyed red or yellow, is the fame; but afterwards thofe which are to be dyed red, mult be treated as follows.
3. Preparation in Honey and Bran of Skins that are to be dyed Red. Mix one pound of honey with three pints of lukewarm water, and flir them together till the honey is diffolved. Then add two double handfuls of bran; and taking four fieins (for which the above quantity of the mixture will be fufficient) work thern well in it one after another. Afterwards fold up each fkin feparately into a round form, with the Helh fide inwards; and lay them in an carthen pan, or other proper veffel; if in the fummer, by the fide of each other; but in the winter, on the top of each other. Place the veffel in a floping pofition, fo that fuch part of the fluid as may (pontaneoully drain from the 1 kins, may pafs from them. An acid fermentation will then rife in the liquor, and the fkins will fwell confiderably. In this flate they mult continue for feven or, eight days; but the moifure that drains from them munt be poured off, once or twice a-day, as occafion mey require. After this a further preparation in falt is neceflary ; and which mult be performed in the following manner.
4. Preparation in Salt, of the fkins to be dyed Red. After the ikins have been fermented in the honey and bran, as above mentioned, let them be taken out of that mixture on the eighth or ninth day, and well rubbed writh dry common fea falt, in the proportion of about half a pound to each flin; the falt muft be well rubbed and worked with them. This will make them contract again, and part with a further confiderable quantity of moifture; which muf be fqueezed out by draswing each fhin feparately through the hands. They muft next be feraped clean on both fides from the bran, fuperfluous falt, and moifture that may adhere to them. After which, dry falt mull be ftrewed over the grainfide, and well rubbed in with the hand. They are then to be doubled with the flelh fide outwards, lengthwife from neck to tail, and a little more dry falt mult be thinly ffrewed over the flefh fide, and rubbed in ; for the two laft operations, about a pound and a half of falt will be fufficient for each fkin. They muft then be put, thus folded on each other, between two clean boards, placed floping, breadthwife; and a heavy weight laid on the upper board, in order gradually to prefs out what moilure they will thus part with. In this thate of preflure, they mult be continued two days

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Ieather. or longer, till it is convenient to dye them, for which they will then be duly prepared.
5. Proparation of the Red Dye, in a preper proportion for four Skins. Pat eight gallons of water into a copper, with feven ounces of fhenan (A) tied up in a linen bag. Light a fire under a copper ; and when the water has Loild about a quarter of an hour, take out the bay of henan, and put into the boiling fluid or Jisiviun, if, Two drams of alum ; 2dly, 'I wo diams pomegranate bark; 3dly, Three quarters of an ounce of turneric; 4thly, Three ounces of cochineal ; 5 th!y, Two unces of loaf fugar. Let the whole mixture boil about fix minates, then cover the fire, and take out a ${ }^{\text {q }}$ quart of liquor, futting it into a flat eathen pan; and whe: it is as cold as new milk, take one $\mathfrak{f k}$ in, folded lengthwile, the grain fide outwards, and dip it in the liquor, rubbing it gently with the hands. Then taking out the fhin, hang it up to drain, and throw away the fuperflucus dye. Proceed in the fame manner with the remaining three fkins; repeating the operation of each fikin feparately, eight times, fqueezing the fioms by drawing them through the lands before each fieth dipping. Lay them now on one fide of a large pan, fe: lloping, to drain ofi as much of the moinore as will run from them without prefiure, for about two hours, or, till they are cold; then tan them as below direcied.
6. Tamings the Red Skins. Powder four ounces of the beft white galls in a marble mortar, fifting it through a fine fieve. Mix the powder with aboot three quarts of water, and work the ikins well in this misture for half an hour or more, folding up the flains forrfold. Let them lie in this tan for 24 hours; when they muft be worked again as before; then taken out, feraped clean on both fides from the firt galls, and put into a like quantity of frefh galls and water. In this frehl mixture they mull be again well worked for three quarters of an hour ; then folded up as before, and lcft in the frelh tan for three days. On the fourth day they muft be taken out, wafhed clean from the galls in feven or eight frefh quantities of water, and then hung up to dry.
7. Manner of Drefling the Slins aftor they are tammed. When the ikins have been treated as above, and are very near dry, they fhould be fcraped with the propel inftrument or fraper on the flefh fide, to reduce them to a proper degree of thicknefs. They are then to be laid on a fincoth board, and glazed by rubbing them with a fmooth glafs. After which they mult be oiled, by rabbing them with olive oil, by means of a linen rag, in the proportion of one ounce and a half of oil
for four R-ins: thcy are then to be grained on a graining board, lengthwife, breadthwife, and comenwile, or from corner to conner.
8. Preparations with Galls, for the Skins to be diyed Yellow. After the four Rinins are taken out of the drench of bran, and clean walhed as before directed in the fecond article, they muft be very well worked, half an hour or more, in a minture of a pound and a haif of the beft white galls, finely powdered, with two quarts of clean water. The Nims are then to be feparately doubled lengthwife, rolled up with the Heth fivie oucwards, haid in the mistare, and clufe prefled down on cach other, in which flate they mult continue two whole days. On the third day let them be again worked in the tan ; and aiterwards fcraped clean from the galls, with an ivory or brafs infrument (for no iron moft touch them). They muft then be put into a freth tan, made of two pounds of galls finely pordered, with about three quats of water, and wel! worked therein 15 times. After this they muft be doubled, rolled up as before, and laid in the fecond tan for three days. On the third day a quarter of a pound of white feafait mult be worked into each ikin; and the Alins doubled up as before, and returned into the tan, till the day following, when they are to be taken out, and well walhed fix times in cold water, and four times in water lukewarm. The water mult be then well fqueezed out, by laying the fkins under preffure, for about half an hoar, between two boards, with a weight of about 200 or 300 pounds laid upon the appermont board, when they will be ready for the dye.
9. Preparation of the Cellow Dye, iat the froper froportion for four Skins. Mix fix ounces of calfiari gehiга (в), or dgehira, or the berries of the eaftern rhamnos, with the fame quantity of alum; and pound them together till they be fine, in a marble or brafs mortar, with a brafs pefile. Then dividing the materiale, thas powdered, into three equal parts of four ounces eaci, put one of thofe three parts into about a pint and a halt of water, in a china or earthen veliel, and fitr the mixfure together. Let the fluid fland to cool, till it will not fcald the hand. Then fpreading one of the $\mathbb{R}$ kins flat on a table, in a warm room, with the grain-fide uppermoft, pour a fourth part of the tinging liquor, prepared as above direcied, over the upper or grain-fide, fpreading it equally orer the fl-in with the Eand, and rubbing it well in. Afterwards do the like with the other three fkins, for which the mixture firft made will be fulficient.

This operation mull be repeated twice more on each ALin
(A) Shenan is a drug much ufed by dyers in the eaft; and may eafily be procured at any of the ports of Syria and Africa, in the Levant. It is the caftern jointed-kali, called by botanilts falicornia; and grows in great plenty in thofe and other parts of the eaft. There is a lefier fpecies of the falicornia on our coatt, which, from its Ifreat affinity with the thenan, might be prefomed to have the fame gualities. On fome trials, however, it has not af eared to anfiver the intention of the thenan; but it will not be prudent to purfue the examination of this further, as tome unhnown circumflances in the collesting or ufing the Englift falicornia might occafion the mifcarriage. Bh.t be this as it may, the eaftern thenan may, at all events, be cafily procured in any quantity, at a very trifling expence, by any of the captains of Turhey ihips, at Alepfo, Smyrna, \&ec.
(A) The colliari gehira is the berries of an caftorn rbamnos, or buckthorn tree; and may be had at Aleppo, ar:d "her parts of the Levant, at a frall price. The common Avignon or yellow berries may be fubllituted, but not with fo good an effect ; the cafliari gchira being a tronger and brighter yellow dye, both for this ufe and alio that of colouring paper hangings, \&c.

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Leuther. fein feparately, with the remaining eight ounces of the powder of the berries, and alum, with the above-mentioned due proportions of hot water, put to them as before directed.

The Reine, when dyed, are to be lumg up on a wooden frame, without being Folded, with the grainfrle outw, reds, about ihrce quarters of an hour to drain; when they melt be carried to a river or thream of running water, and well wathed therein fix times or more. After this thes mall be put under prellure for about an hour, till the water be well fqueczed out; afterwards the thins mult be hung up to dry in a warm room.

This being done, the thins are to be drefled and grained as betore directed for thole dyed red ; except the viling, whicin mult be omit:ed.

Biacking Legisher. In the taming of leather it is to macis impregnated with the alhingent parts of oak bark, or with that matter which itrikes a black with green ritriol, that rubbing it over three or four times with a folution of the vitriol, or with a fulution of iron made in regetable acids, is fafficient for ftaining it black. Of this we may be convinced by dropping a litale of the folution on the unblacked fide of commoin fhac leather. This operation is performed by the currier ; who, after the colouring, gives a glofs to the leather with a folution of gum arabic and fize made in vinegar. Where the previous altringent impregnation is infufficient to give due colour, and for thofe forts of leather which have not been tanned, fome galls or other altringents are added to the folution of iron; and in many cales, particularly for the fincr forts of leather, and for remewing the blacknels, ivory or lampblack are ufed. A mixture of either of thefe with linfeed oil makes the common oil blacking. For a finning blacking, finall beer or water are takon inttead of oil, in the quantity of about a pint to an cunce of the ivory black, with an addition of half an ounce of brown fugar and as much gum arabic. The white of an ege, fubttituted for the gum, makes the blacks more thining, but is fuppofed to hurt the leather, and make it apt to crack. It mult be obvicus, however, that all thefe compolitions admit of a great many variations.

Gilding of Leather. Take glair of the whites of eggs, or gum water, and with a bruth rub over the leather with either of them: then lay on the gold or ilver, and, lettins them dry, burnifh thern. See the articies Gilding and Burnishisg.

To drefs or cover Leather with Silver or Gold Take brown-red; grind or move it on a done with a muiler, adding water and chalk; and when the latter is diliolved, rub or lightly daub the leather over with it, till it looks a little whitill ; and then lay on the leafofliver or gold before the leather is quite dry, laying the leaves a little over each other, that there may not be the leaft part uncovered; and when they have well clofed with the leather, and ar, fufficiently dried on and hardened, rub them over with an ivory polither, or the foretooth of a horfe.

Bv feveral fatutes, regulations are made for the tanning and manufacturing of leather ; and by the 2 -th Gen. ill. c. 13. a duty is laid upon all hides and fleins impored, and drawbacks allowed on the exnortation thepent. Sesera! duties are alfo impofed on hides and fkins tanned in Great Britain, of what kind foever, as
fet forth in fchedulcs annexed to the faid act. By the 23 Geo. IiI. c. 37. further re;yulations are made refecting the faid dutics, which are under the management of the olicers of excifc.

I, EAVEN, a piece of four dough, ufed to ferment and render light a much larger quantity of dough or palle. See Bread, Barm, and Basise.

Leaven was Arictly forbidden by the law of Mofes during the feven days of the paflover ; and the lews, in obedience to this $1 a \%$, very carclully purified their houfes from all leaven as foon as the vigil of the lealt began. Nothing of howey or leaven was to have place in any thing prelented to the Lord, upon his altar, during this folemuitg. If, during the ficall, the leatt particle of leaven was found in theci- houfes, they imagined the shole was polluted, for a little leaver leaveneih the whole lump. Leaven, in its figurative fenfe, fignifies the bad pations of envy and matice, and rancour, which four the temper, and extend their ferment over the focial affections; whereas unleavened tread implies tincerity and truth. It is frequertly ufed for any kind of moral contagion.

Leaves of plants. See Leaf.
Colours extracted from Leapes. See Colour-Milaking, $\mathrm{N}^{0} 37$.

LEBADEA, or Lebadia, an ancient ionto of Eirotia, on the borders of Phocis, fituated between Helicon and Cheronea, near Coronæa. lu it Rood the oracle of Jupiter Trophonias, which whoever went tu confult, defcended into a fubtereancous gulf.

LEPEDA, an ancient lea port town of Arica, in the kinguom of Tripoli, with a pret y good harbour, and an oid calile, feated on the Mediterranean Sea; in E. Long. If. 50. N. Lat. 3z. 10.

LEEEDOS, reckoned am:ong the twelve ancient cities of Icnia, was fituated to the fouth of Smyrna. it was the refidence of fage-players, and the place where they met from all pasts of Ionia, as far as the Hellefont, ard celebrated anmual games in honour of Bacchus, (Strabo). It was overthrown by Lyfimachus, who removed the inhabitants to Ephefus; Ccarce ever after recovering itfelf, and becoming rather a village than a to:nn, (Horace.)

LEBEN, or LEBENA, in Ancient Gengraphy, one of the port towns of the Gortynian:, near the pronumtory Leon, on the fouth-eat fide of Crete; famous for. a temple of 压fculapius in imitation of that of Cyrenaica.

LEER1XA, an ancient, Atrong, a:iil plealant town of Spain, in Andalulia; feated on a teryitory abound. ing in corn, wine, and a great number of olive trees, of whole fruit they make the belt oil in Spain. W. Long. 5. 32. N. Lat. 3 6. 52.
L.EBUS, a town of G rmany, in the circle of Üp. per Saxony, and in the marquifate of Brandenbure, with a bihop's fee, fecularized in favour of the houfe of Brandenburg. it is leated on the river Oder, in E. Long 14. 55. N. Lat. 52.28.

LECCE, a rich, populous, and mofl beantiful town of Italy, in the kingdom of Naples and in the Terta d'Otranto, of which it is the chief place, and the iee of a bihks. E. Long. 18. 23. N. Lרt. 42.39.

LECCO, a town of laly in the duchy of Miins, feated on the eattern fide of the lake Corro. E. L meg. 9. 42. N. Lat. $45 \cdot 45$.

LECHLADE, a town of Glouceferthire in England, feated at the contluence of the rivers Lech and Leeturers. Thames. IV. Long. 2. 15. N. Lat. 5 1. 42.

LECHNICH, a town of Germany, in the circle of the lower Rhine, and in the electorate of Cologne. E Long. 6. 35. N. Lat. 50. 40.

LECTI, beds or cunches, were of two kinds amonglt the Romans, as being deltined to two different ufes, to lie upon at entertaimments, and to repole upon for nightly reft. The firt were called la7i tricliniares, the other lecti cubicularii. See Beds.

LECTICA, was a litter or vehicle in which the Romans were carried. It was of two kinds, covered and uncovered. The covered lectica is called by Pliny cubiculum ziatorum, a traveller's bedchamber: And indeed we are informed that Auguftus frequuently ordered his ferrants to ftop bis litter that he might fleep upon the road. This velicle was carried by fix or eiglat men called lecticarii. 'The lectica differed from the fello, for in the firf the traveller could recline himfelf for fleep, in the latter he was obliged to fit. The lectica was invented in Bithynia; the fella was a Roman machine, and efteemed the more honourable of the two. Lectica was al.o the name of the funeral bed or bier for carrying out the dead.

LECTICARII, among the Romans, fervants who carried the Lectica.

LECTICARIUS was alfo an officer in the Greek church, whofe bufinefs it was to bear off the bodies of thofe who died, and to bury them. Thefe were otherwife denominated decani and cop:ata.

LECTIO, Reading. Confidered in a medicinal view, it is faid by Celfus, lib. i. cap. 4. to be bad, efpecially after fupper, for thofe whofe heads are weak; and in lib. i. cap. 8. he recommends reading with an audible roice for fuch as have weak fomachs. It is alfo directed by Paulus Eginetus as an exercife, lib. i. cap. Ig.

LECTISTERNIUM, a folemn ceremony obferved by the Romans in times of public danger, wherein an entertainment was prepared with great magnificence, and ferved up in the temples. The gods were invited to partake of the good cheer, and their fatues placed upon couches round the table in the fame manner as men ufed to fit at meat. The firf ledilternium held at Rome was in honour of Apollo, Latona, Diana, Hercules, Mercury, and Neptune, to fut a fop to a contagious diftemper which raged amongt the cattle, in the year of Rome 354. At thefe feafts the Epulones prefided, and the facred banquet was called epulum." See Epulo, Epulum, \&c.

Something like the lectifternium was occafionally obferved amongी the Greeks, according to Cafaubon.

LECTORES, among the Romans, fervants in great men's houfes, who were employed in reading while their mal'ers were at fupper. They were called by the Greeks Anagnoste.

LECTOURE, an ancient and ftrong town of France, in Gafcony, with a cafle and a bifhop's lee; feated on a mountain, at the foot of which runs the river Gers. E. Long. O. 42 . N. Lat. 43. 56.

LECTURERS, in England, are an order of preachers in parifh churches, diftinet from the reclor, vicar, and curate. They are cholen by the veltry, or chief
inhabitants of the parifl, fupported by voluntary fubfcriptions and legacies, and are ulually the afternoon preachers in the Sunday fervice. The term is alfo more generally applied to thofe who preach on Sunday, or on any itated day of the week, in charches, or other places of public worthip. By 13 and 14 Car. II. cap. 4. lecturers in churches, unlicenfed, and not conforming to the liturgy, thall be difibled, and thall alfo fuffer three months imprifonment in the common gacl; and two juftices, or the mayor in a town corporate, flall, upon certificate from the ordinary, commit them accordingly. Where there are lectures founded by the donations of pious perfons, the lefturers are appointed by the founders without any interpofition or confent of refors of churches, \&c. though with the leave and approbation of the bifhop; fuch as that of Lady Moyer's at St Paul's. But the lecturer is not entitled to the pulpit, without the confent of the rector or vicar, who is poffeffed of the freehold of the church.

LEDA, in fabulous hitory, a daughter of King Thefpius and Eurythemis, who married Tyndarus king of Sparta. She was feen bathing in the river Eurotas by Jupiter, when flue was fome few days advanced in her pregnancy, and the god, ftruck with leer beauty, refolved to deceive her. He perfuaded Venus to change herfelf into an eagle, while he affumed the form of a fwan, and after this metamorphofis Jupiter, as if fearful of the tyrannical cruelty of the bird of prey, fled through the air into the arms of Leda, who willingly Alieltered the trembling fwan from the afiaults of his fuperior enemy. The carefles with which the naked Leda received the fwan, enabled Jupiter to avail himfelf of his fituation, and nine months after this adventure the wife of Tyndarus brought forth two eggs, of one of which fprung Pollux and Helena, and of the other Caftor and Clytemneftra. The two former were deemed the offspring of Jupiter, and the others claimed Tyndarus for their father. Some mythologits attribute this amour to Nemefis and not to Leda; and they farther mention, that Leda was intrufted with the education of the children which fprung from the eggs brought forth by Nemefis. To reconcile this diverfity of epinions, others maintain that Leda received the name of Nemefis after death. Homer and Hefiod make no mention of the metamorphofis of Jupiter into a fwan, whence fome have imagined that the fable was unknown to thofe two ancient poets, and probably invented fince their age.

LEDBURY, a town of Herefordhire in England. It is a well built town, feated on a rich clay foil, and inhabited moftly by clothiers, who carry on a pretty large trade. W. Long. 2. 27. N. Lat. 52. 6.

LEDESMIA, an ancient and ftrong town of Spain, in the kingdom of Leon, feated on the river Tome, in W. Long. 5. 25. N. Lat. 47. 2.

LEDGER, the principal book wherein merchants eiter their accounts. See Book-keeping.

LEDUM, MARSH cIStus, or Wild Rofemary; a genus of plants belonging to the decandria clafs; and in the natural method ranking under the 18 th order, $B i$ cornes. See Botany Index.

LEE, an epithet ufed by feamen to diftinguifn that part of the hemifphere to which the wind is directed, from the other part whence it arifes; which latter is accordingly called to windward. This expreffion is

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chiefly ured when the wind croffes she line of a thip's courfe, fo that all on a fide of her is called to windward, and all on the oppofite fide so lecward. Hence,

Uthder the LEE, implies farther to the lecward, or farther from that part of the horizon whence the wind blows: as,

Under the LEE of the Shore; i. e. at a fhort diftance from the thore which lies to windward. This phrafe is commonly underfood to exprefs the fituation of a vefiel anchored, or lailing under the weather-flore, where there is always fmoother water, and lefs danger of heavy feas, than at a great diflance from it.

Les Larches, the fudden and violent rolls which a fhip often takes to the leeward in a high fea, particularly when a large wave ftrikes her on the weatherfide.

Lee-Side, all that part of a mip or boat which lies between the maft and the fide fartheft from the direcsion of the wind; or otherwife, that half of a mip which is preficd down towards the water by the effort of the fails, as feparated from the other half by a line drawn through the middle of her length. That part of the flip which lies to windward of this line is accorelingly called the weather-fide. Thus admit a flip to be failing fouthward, with the wind at eaft, then is her ftarboard or right fide the lee-fide; and the lar. board, or left, the weather-fide.

## Lee-Stone. See Lee-Penny.

LeelWay. See Navigatios.
LeE, Nathaniel, a very eminent dramatic poet of the laft century, was the fon of a clergyman, who gave him a liberal education.-He received his firft rudiments of learning at Weltminfter fchool; from whence he went to Trinity college, Cambridge.Coming to London, however, his inclination prompted him to appear on the theatre; but he was not more fuccefsful in reprefenting the thoughts of other men, than many a genius befides, who have been cqually unfortunate in treading the flage, although they knew fo well how to write for it. He produced II tragedies, all of which contain a very great portion of true poetic enthufiafm. None, if any, ever felt the paffion of love more truly; nor could any one defcribe it with more tendernefs. Addifon commends his genius highly; obferving, that none of our EngTish poets had a happier turn for tragedy, although his natural fire and unbridled impetuofity hurried him beyond all bounds of probability, and fometimes were quite out of nature. The truth is, this poet's imagiration ran away with his reafon; fo that at length he became quite crazy; and grew fo mad, that his friends were obliged to confine him in bedlam, where lae made that famous witty reply to a coxcomb fcribbler, who had the cruelty to jeer him with bis misfortune, by oblerving that it was an ealy thing to write like a madman :-" No (faid Lee), it is not an eafy thing to write like a madman ; but it is very ealy to write like a fool." Lee had the good fortune to recover the ufe of his reafon fo far as to be difcharged from his melancholy confinement ; but he did not long farvive his enlargement, dying at the early age of 34 . Cibber, in his Lives of the Poets, fays he perifhed unfortunately in a night ramble in London ftreets.-His Theodofius and Alexander the Great are fock plays, and to this, day are often acted with great applaufe. The late Ms

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Barry was particularly furtunate in the charafer of Pac-Penty the Macedonian hero.

Leke. Penny, or Leee-fone, a curious piece of antiquity belonging to the family of Lee in Scotland, and of which the following account has been given in the Gentleman's Magazine for Necember 1787.

It is a tlone of a dark red colour and triangular Mape, and its fize about lialf an inch each fide. It is fet in a piece of filver coin, which, though much defaced, by fome letters till remaining is fuppofed to be a Thilling of Edward I. the crofs being very plain, as it is or his flilitings. - It has been, by tradition, in the Lee family fince the year 1322 ; that is, a little after the deatla of King Robert Bruce, who laving ordered his heart to be carried to the Holy Land, there to be buried, one of the noble family of Douglas was fent with it, and it is faid got the crowned heart in his arms from that circumplance : but the perfon who carried the heart was Simon Locard of Lce, who ju? about this time borrowed a large fum of money from Sir William de Lendfay, prior of Air, for which he granted a bond of annuity of ten pounds of filver, during the life of the faid Sir William de Lendfay, out of his lands of Lee and Cartland. The original bund; dated 1323 , and witnefed by the principal nobility of the country, is fill remaining among the family papers.

As this was a great fum in thofe days, it is thought it was borrowed for that espedition ; and, from his being the perfon who carried the royal heart, he changed his name to Lockkeart, as it is fometimes [pelled, or Lockhart, and got a heart within a lock for part of his arms, with the motto Corda feratn pan-do.-This Simon Lockhart having taken priloner a Saracen prince or chief, his wife came to ranfom him; and on counting out the money or jervels, this ftone fell out of her purfo, whicla the haftily fnatched up; which Simon Lockhart obferving, infilled to have it, elfe he would not give up his prifoner.-Upon this the lady gave it him, and told him its many virtues, viz. that it cured all difeafes in cattle, and the bite of a mad dog both in man and beaft. It is uled by dipping the fone in water, which is given to the difeafed cattle to drink; and the perfon who has been bit, and the wound or part infected, is wafhed with the water. There are no words ufed in the dipping of the flone, or any money taken by the fervants, without incurring the owner's difpleafure. Nany are the cures faid to be performed by it , and people come from all parts of Scotland, and even as far up in England as Yorkfhire, to get the water in which the Itone is dipped, to give their catte, when ill of the murrain efpecially, and black-leg.-A great many years ago, a complaint was made to the ecclefiallical courts againft the laird of Lee, then Sir James Lockhart, for ufing witcheraft.-It is faid, when the plague was laft at Newcaftle, the inhabitants fent for the Lee-penny, and gave a bond for a large fum in truft for the loan; and that they thought it did fo much good, that they offered to pay the money, and keep the Lee-penny; but the gentleman would not past with it. A copy of this bond is very well attefted to have baen among the family papers, but fuppofed to have been fpoiled, along with many more valuable ones, about 50 years ago, by rain getting into the charter room, during a long mis nosity, and no family refiding at Lee.

Tientis siven this hifory, net on aecount of the utality of the intornation, Lut as a proof of the fiperftrion of the times. None of the vintues which the fic:e si:s townerly fippoied to pofiefs, are now alcribed on t, excepting, we believe, in the cafe of func of the cutates of cattle; and even thete in more enlighenad tires will become daily lels numerous mat lifs zowerfil.

LEECH, in Zunlogy. Šee Hikudo, Helminthot.eny Indix.

Lefenes, in a hip, the borders or edges of a fail which are either loping or perpendicular.

The lceches of all fails whofe tops and botonns are parallel to the deck, or at riphi angles to the mait, are denominated from the Thif's fide, and the faii to which they belong; as the farboard leech of the mainfail, the lee leech of the fore-top fail, \&c. But the fails which are fixed obliquely on the mats have their leeches named from their fituation with refpeck to the Thip's lencth; as the fure leech of the mizen, the afterleech of the jib or fore-itay fail, Sc.

Leech lines, certain ropes faftened to the middle we the leeches of the main-lail and fore-fail, and communicating with blocks under the oppofite fides of the top, whence they pafs downwards to the deck, ferving to truls up thofe fails to the yard as occalion requires. See Prails.

Leach-Rope, a name given to that part of the boltrope to which the border or flairt of a fail is fewer. In all fails whofe oppofite leecles are of the fame length, it is terminated above the earing, and belo:\% the clue. See Bolt-Rupe, Clue, and Eiring.

LEEDS, a town of the wett riding of Yorkflire, 196 miles from London, has a magnificent Atone bridge over the river Aire to the fuburos. It was incorporated ly King Charles I. with a chief alderman, nine burgefics, and 20 afiftants; and by Charles II. with a mayor, 12 aldermen, and 24 affiltants. It has been a long time famous for the woollen manufacture, and is one of the largeft and moll flourifling towns in the county, yet had but one church till the reign of Charles I. By means of inland navigation, it has commur,ication with the rivers Merfey, Dee, Ribble, Oufe, Trent. Darwent, Severn, Humber, Thames, Avon, \&c. which navigation, includirg its windings, extends above so0 miles in the counties of Lincoln, Nottingham, Lancarter, Weftmorland, Chefter, Stafford, Warwick, Leicefter, Oxford, Worcel?er, \&c. Here is a long Atreet full of hops, and a hall for the fale of cloth, built in 1758 . The merchants of this place, Yozk, and Hull, fhip them off at the latter port, for Holland, Hamburgh, and the north. After ringins of the market-bell at fix or feven in the morning, the charmen come and match their patterns, when they treat for the cloth with a whifper, becaufe the clothicrs flandings are fo near each other : and perhaps 22,000l. worth of cloth is Cold in an hour's time. At half an hour atter eight the bell rings again, when the clothers make room for the linendra. cri, harduare men, hoemakers, fruiterers, \&ic. At the fure time the fhambles are vell flored with all forts of filh and tleih; and 5 co herfe loads of apnles have been counted here in a day 1 here is a magnificent hall, where thev alfo fell great quantities of swhite cl th . ird here is a mble f wildhall, witl a fine marble fatue o Queen Anne, crected aboui the vear 1714.
lts rive: being naigable by boats, they fend other sonds, betides their clorh, to Wakefred, York, and Huli, and farmith York wit' coais. 'rhere is a houre calied Ret iadl, becaufe it we a the sirit brick building in the town, and Kis.s Charles 1. l:ad aum aptment in it, which is erer fince cailed the $\mathrm{A} \mathrm{m}_{5}$ 's chataber. There is another place called Tozer hilh, on which there nos oace a tower; lefides which, there was a cati.e whall Fing Stepleen betieged in 1 is march to Scothmed. Here was a!io a park, where are now inclofures. These is a workhoule here of frce thone, where poos: children are tauglt to mix wool, and perform other ealy branches of thet manufacture, and a part of it has been uled meny years as an holpital for the reception of the aged poor. Here are threc alms houles, and two charity fchools of biue coat boys to the number of 1 co. In the ceiling of St Peter's, it, only parochial church, the delivery of the law to Mofes is finely painted in frefoo by Parmentier. It is a renerable free fonc pile built in the cathedral farhion, and fcems to have been the patch work of feveral ages. The increafe of building in Leedsin the year ${ }_{7}$ S 6 , was nearly 400 houles. There is $a^{2} \operatorname{Prefoyterian}$ mectingheufe here, erccted in 169 s , called the new chicpel, which is the fatelief, if not the oldeit, of that denomination in the north of England: and in the town and its fuburbs are feveral other meeting-houtes, as is always obfervable in towns of great trade and manufactire. It is noted for fome medicinal fprings; one of which, called St Peter's, is very cold, and has been found very beneficial in rheumatifms, ricket:, \&c. Here is an hotpital for relief of the poor who hat been honeit and indufrious, endowed with 801. ayear, befides iol. a year for a maiter to read prayers and inftruct them; alfo a free fchool. Its markets are Tuefdays and Saturdays, and the market-laws are more ftrictly obferved here than anywhere. It has two fairs in the year. Leeds, though a large town, fends no members to parliament.

LEEK. See Allumi, Botssyy Index; and for its culture fee Gardening.

LeEk, a town of Staffurdhire in England, $15 j$ miles from Londen. It lies among the barren moorlands, has a manufacture of butions, a market cn Wednefday, and feven fairs in the year. In the churchyard, at the fouth-eali corner of the charcel, are the remains of a Danifh crofs, now upright, and so feet high from the ground, beneath which are three lieps. In Blue-hills in the neighbourhood are coal mincs; and a falt ftream comes from thence, which tinges the fones and earth through which it runs with a rully colour, and, with the infufion of galls, turns as black as ink. Here are rocks of a molt furprifing height, without any turf or mould upon them.

LFER, in glafs-making, a fort of third furnace, irtended to anneal and cool by proper degrees the vefiels when made. 'Ihis properly coinprehends two parts, the tower and leer. The tower is that part which lies directly above the melting furnace, with a partition between them of a foot thick, in the midat Whereof there is a round hole, placed exactly over the furnace, through which the flame and heat pals into the tower: on the lloor of this tower the veffels are fet to ameal. 'There are two onenings by which the veflels are put into this towes; and affer llanding there

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fome time, they are put into iron pans, which by degrees are drawn out all along that part of this furnace, which is properly called the leer; which is five or fix yards long, that the veffels may cool by derrees. This leer is continued to its tower and arched all along, and is about four feet wide, and high witliit. The glaties are cool by that time they are come to the muath of this, which enters into a room whe:e the glaties are placed are taken out.
L.EES. the groflelt and mof ponderous parts of liquors, which, beting feparated by fermentation, fall to the botton. The word comes from the French lic; and that (ither from limus "raud," or from Lyeus oae of the farnames of Bacchus; or, according to Dus Cange, from / $a$, a corrupt La in wood fignifying the fame.-The winegar-makers make a great irade of the lee, of wine dried and made into cakes, after having fqueczed out the remains of the liquor in prefles.

LEET, or court leet (leta aijes franci plegii), is a court of record, ordained for puniihing offences againt the crown; and is faid to be the mof ancient court of the land. It inquires of ail ofiences under high treafon; but thofe who are to be punilhed with lols of life or member, are only inquirable and prefentable here, and to be certified over to the juftices of allize, (Stat. 1. Edw. IIl.). And this court is called the view of frank pledge, becaule the king is to be there certifed by the view of the iteward, how many people are within every leet, and have an account of their good manners and government; and every perfon of the age of 12 years, who hath remained there for a year and a day, may be froorn to be failliful to the king, and the people are to be kept in peace, \& \& . $\Lambda$ leet is incident to a hundred, as a court baron to a manor: for by grant of a hundred, a leet pafieth; and a hundired cannot be without a lect. -The ufual method of punilhment in the court leet, is by fine and amercement ; the former affefled by the fleward, and the latter by the jurv.

LEETAKOO, a confrderable town in fouthern A. frica, fituated in $26^{\circ} 30^{\prime} \mathrm{S}$. Lat. and $27^{\circ} \mathrm{E}$. Long. A river runs through the midit of it, which from the extert of the channel muf be fometimes of coniderable magnitude. This toru, which was difcovered by a miltion from the Cape of Good Hope in 180 r and 1802 , is computed to be fuliy of as great extent as Cape Town; but the exact number of the houfes, fays Mír Barrow, could not be afcertained, owing to the i:regularity of the freets and the lownefs of the buildings. It contains, according to fome, ajout $10,0=0$ inhabitants of all defrriptions, while ctliers make them amount to nearly 15,000 . The ground plan of every houfe is a complete circle, from 12 to 15 feet diameter; the floor conlifts of hard beaten clay, raifed four inches above the furface of the enclofure. One-Eourth of it, commonly facing the eaft, is entizely open, the other three-fourths walled up with clay and fones, to the height of about five feet. The jeople depofit their valuable articles in another apartinent defcribed with the fame radius as the former, fuch as ikin clothing, ivury ornaments, knives and other articles, which to them are of efiential fervice. In this alfo the elder part of the faniily take their repofe, and the children fleep in the half-clofed viramia.

The whole houfe is covered with a roof in the form of a tent, fupporicd by poles buil: into the wall. The
roof is thatched with reed́s, bound tugether with lea- Leemard thern thongs. The iahabitants preferve their grain and pulfe ia large clay velle's adjacent to the houfe, exhibiting the appearance of large oil jars, and foome of them containing abnut 200 gailons.

The regularity and decorum with which the people of Leetakoo conduft thenleives, give a very favou:able opinion of them, as being greatly fuperior to fasages, and evince them to be bordering on a thate of civilization which it would be no difficult mater to introduce among them. They are friendly, peaceable, and inoffentive, and appear to tive under a governnaent which may be denominated puely patriarchal, and the chief of confequence mult be the idol of the people. They do not appear to have any particular form of religious workhip, in the common acceptation of that word, yet they circumcife all male children, and dance in a circle the whole night of the full moon. They feem alfo to believe that there is a power direaing the operations of nature, who is infinitely fuperior to themfelves, and to whofe intiluence they are fubject. Barrow's Travels to Co:hin-china. Appendix.

Lemarid Shis, a veffel that falls much to leeward of her courfe, when failing clofe laauled, and confequently lofes much gromid.

To $I_{\text {EE }}$ aikd, towards that part of the lorizon which lies under the lee, or whither the wind blowetl. Thus, "We faw a tleet tunder the lee," and, "We faw a fleet to leezard," are fynonymous cxprellions.

LEG, in Anatomy, the whole leffer extremity from the acetabula of the offa innominata, commonly divided into three parts, viz. the thigh, the leg properly fo called, and the foot. See ANatowir, No 60.

LEGACY, in Scists Law, a donation by one perion to another, to be paid by the giver's executor after his death. See Law, No elxxio. 3 .

LEGATE, a cardinal or bihop, whom the pupe fends as his ambafador to fovereign princes. See Axtbassador.

There are three kinds of legates, viz. legaies à latere, legates de latere, and legates by office, or legati nati: of thefe the molt conliderable are the legates $\dot{d}$ latere, the next are the legates de laiere. Sce the article Latere.

Legates by office are thofe who have not any particular legation given them; but who, by virtue of their dignity and rank in the church, becone legates: fuck are the archbilhop of Rheims and Arles: but the authority of thefe legates is much inferior to that of the legates à latere.

The power of a lcgate is fometimes give? wihout the tite. Sume of the nuncios are invelled with it. It was one of the ecclefiattical privileges of England from the Norman conquelt, that no foreign legate thould be obtruded upon the Englift, unlefs the king ficuld defire it upon fome extraordinary emergency, as when a cafe was too difficult for the Englifh prelates to deternine.

The term legate comes from lcgatus, which Varra derives from legere, "to clioofe;"" and others from legare, delegare, "to fend, delegate."

Court of the Lrgate, was a court obtained by Cardinal Wolfey of lope I.eo X. in the ninth !ear of Henry VIII. whercia he, as legate of the pope, had

Hegatee porser to prove wills, and difpenfe with offences a-
gainft the firitual laws, \&ic. It was but of fhort continuance.

LEGATEE, in Scots Low, the perfon to whom a legacy is provided.

LEGATIO Libera, was a privilege frequently obtained of the ftate, $b y$ fenators of Rome, for going into any province or country, upon their own private bufinefs, in the quality of legati or envoys from the fenate, that the dignity of this nominal office might fecure them a good reception, and have an influence on the management of their concerns. The cities and towns through which they paffed were obliged to defray their expences.-'This was called libera legatio, becaufe they might lay afide the office as foon as they plealed, and were not encumbered with any actual trult.

LEGATUS, a military officer among the Romans, who commanded as deputy of the commander in chief. The legati, at their firit inftitution, were not fo much to command as to advife. They were generally chofen by the confuls, with the approbation of the fenate. As to the number of the legati, we have no certain information, though we may upon good grounds affign one to every legion. In the abfence of the conful or proconful, they bad the honour to ufe the fafces.

Under the emperors there were two forts of legati, confulares and pratorii. The firlt commanded whole armies, as the emperors lieutenant-generals; and the other had the command of particular legions.

The legali under the proconfuls in the provinces, ferved for judging inferior caufes, and management of fmaller concernc, remitting things of great moment to the governor or prefident himfelf. This was the original office of the legati, as was hinted above; though, as we have feen, they were afterwards admitted to command in the army.

LEGEND, any idle or ridiculous fory told by the Romanifts concerning their faints, and other perfons, in order to fupport the credit of their religion.

The legend was originally a book ufed in the old Romith churches, containing the leffons to be read at divine fervice ; hence the lives of the faints and martyrs came to be called legends, becaule chapters were read out of them at matins, and at the refectories of
religious houfes. Among thefe the golden legend, which is a collection of the lives of the faints, was received in the church with great applaufe, which it maintained for 200 years; though it is fo full of ridiculous and romantic תorics, that the Romanifts themfelves are now athamed of it.

Legend is allo ufed by authors to fignify the words or letters engraven about the margin, \& c. of coins. 'Thus the legend of a French crown is, sit nomen domini beNedictva; that of a moidore, in hoc signo vinces: on thofe of the laft emoerors of Conftantinople, we find IESvS CHRISTYS BASILEV'S B.iSileon, ihs xps NIKA, iesvs christrs vincit.

Legend is alfo applied to the infcription of medals, which ferves to explain the figures or devices reprefented on them. In ftrictnefs, the legend differs from the infcription; this laft properly fignifying words placed on the reverfe of a medal, in lieu of figures.

It feems as if the ancients had intended their medals fhould ferve both as images and as emblems; the former for the common people, and the other for perfons of tafte and parts; the images to reprefent the faces of princes; emblems their virtues and great actions; fo that the legend is to be looked on as the foul of the medal, and the figures as the body.

Every medal has properly two legends; that on the front, and that on the reverle. The firft generally ferses only to diftinguigh the perfon by his name, titles, offices, \&c. the latter is intended to exprefs his noble and virtuous fentiments, his good deeds, and the advantages the public has reaped by him. This, however, does not hold univerfally; for fometimes we find the titles fhared between both fides, and fometimes alfo the legend.

In the medals of cities and provinces, as the head is ufually the genius of the place, or at leaft fome deity adored there, the legend is the name of the city, province, or deity, or of both together; and the reverfe is fome fymbol of the city, \&c. frequently without a legend, fometimes with that of one of its magiftrates.

Legends generally commemorate the virtues of princes, their honour and confecrations, fignal events, public monuments, deities, vows, privileges, \&c. which are either in Latin or Greek, or a misture of both, and are intended to eternize their names, and the benefits done by them to the empire.

## L E G E R D E M A I N,

## OR SLEIGHT OF HAND,

ADENOMINATION given to certain deceptive performances, which either depend altogether on dexterity and addrefe, or derive but a fmall degree of aid from philofophical principles. Of thefe we thall prefent our readers with a felection of the beft that Fave been either explained in books or publicly exhibited.

## Sect. I. Performances with Cups and Bails.

Prelimi-
Tue following method of exercifing this fimple and nary expla-ingenious amufement is that practifed by one Mr

Kopp a German, whole performances are defervedis preferred to thofe of former artifts. In this, however, as in all the other branches belonging to the art of legerdemain, it is not fufficient that a perfon has the requilite dexterity or fleight of hand; it is neceflary alfo to take off the attention of the fpectators by fome entertaining difcourfe; which not only prevents difcovery, but adds greatly to the amufement of the company; for which reafon, fuch difcourfe is inferted in this article.

To play his part properiy, the performer on cups

Perform- and balls ought to provide limfelf with a bag about nees with 12 inches lonǵ, and from eight to ten in depth. The hups and Balls. infide muft be furnilied with a number of pockets for holding the feveral articles neceifary in the amufement; and this bag the performer mult hang bcfore him.
The materials necelfary for the performer are,

1. Three white polithed tin cups, reprefented by $\mathrm{A}, \mathrm{B}$, and C (fig. r.) in the fhape of a truncated cone with a double ledge D towards the bafe. This ledge, which is about half an inch in breadth, ferves to raife the cups eafily by, admitting alfo the hand to pafs a fmall cork ball (fee fig. 5.) The upper part E of the cup ought to be hollowed in the form of a fphere, fufficient to contain the balls without their appearing above the upper edge of the cups.
2. It is alfo neceflary to have a fmall rod, called fasob's תaff; which is ufually made of ebony, and neatly tipt with ivory at both ends. This is frequently ufed for ftriking on the cups; and being held in the hand where the balls are alfo kept, it gives the operator an opportunity of keeping that hand generally hut, or of varying its pofition, in order to avoid being difcovered. The balls are made of cork, blackened by flight burning on the outfide.

The dexterity in performing this operation confits in artfully fecreting a ball in the right hand, and making it to appear or difappear in the fame hand. The fecreting it between the fingers is called conjuring the ball, at which time the fpectators are to fuppofe that it is kept in the other hand, or that it was paifed under a cup; but if it is made to reappear when held fecretly in the hand, they muft believe that it came out of the place laft touched by the fingers.

Conjuring the ball is performed by putting it between the place of the thumb $A$ and the finger $B$ (fig. 2.), conveying it with the thumb, by rolling it upon the fingers the length of the line BC , moving the middle finger $D$ to a diftance, and placing the ball at the junction of the fingers C (fig. 3.) ; but in this part of the operation it is neceflary to hold the ball rather tight, left it thould fall down and difcover the fecret. In order to make it appear, we muft bring back the ball the fame way from C to D ; and every time that it is conjured, or made to difappear, as well as when it is made to reappear, the palm of the hand thould be turned from the fide of the table on which the operator is playing.

While this part of the trick is performing, the operator muft let the fpectators know that the ball has been paffed under a cup, or into another hand; and in the firft cafe he makes a motion with the hand; (as reprefented fig. 4.) indicating that he had thrown it through the cup; at which time alfo he conjures it, approaching the two fingers of the right hand towards the left, which latt he holds open, and makes a motion as if the ball had been placed there, 隹ting the left hand inflantly. It is alfo to be fuppofed, at every time when a ball feems to be placed below a cup, that it has been held in the left hand; and when he raifes the cup with the right hand as in fig. 5 . the left hand muft be opened, and he refts the ball at that inflant upon the bollow of the other, fliding it along the fingers.

At the time the ball is to be put fecretly under Vol. XI. Part II.
the cup, it fhould lie between the two fingers of the right hand (fig. 5.) With this hand be railes the cup; and placing it on the table, lets go the ball, which, according to its pofition in fig. 6. flould be found near the edge of the cup whea taken into the hand. It he would put the ball fecretly between the two cups, it mult be let go by jelking it towards the buttom of the cup which he holds, and places it very quickly on that in which the ball is to be found. When the ball is is this fituation, if the operator thould want it to difappear, he mult raife the two cups with his right liand, and draw out hafity that under which the ball is placed; at the fame inflant lowering with his left hand the other cup, under which he places it.

In fpeaking of the tricks which follow, terms are made ufe of which explain whether what is faid be feigned or true; of which terms explanations are given, and numbers adapted to the explanations of the different operations which follow.
I. To put the boll under the cup: Really done, with the fingers of the right or left hand.
II. To put the ball under the cup, or in the hand.A feigned conjuration ; pretending to thut it up in the left hand, which is afterwards opened, in order to have it fuppofed that the ball is under the cup or elfewhere. See fig. 3.
III. To pafs the ball under the cup.-The ball fuppofed to be conjured is to be really introduced.
IV. To pafs the ball between the cups, is likewife real.
V. To make the ball which is betwecn the cups difappear - This is likewife real ; and performed, as has already been defcribed, by drawing back with much precipitation and dexterity the cup on which it is placed, and lowering upon the table that which is above, and under which the ball mult of confequence be found.
VI. To take the ball. Real.-It is taken between two fingers of the right hand, and fhown before conju. ration.
VII. To take away this ball from under the cup. This is done by taking it away in the figlit of the fecetators.
VIII. To draw the ball. Feigned; or by preeending to draw it from the end of the rod, from the cup, or any other place, by bringing into the fingers the ball which was fecreter.
IX. To throw the ball through the cup, is to conjure it in pretending to throw it.
X. To raife up the cups. This is really done in three ways; viz. either with the right hand, the rod, or the left hand. The firlt is when the ball is to be fecretly inferted in returning the cup to its place. In the fecond; the rod is to be put on the tops of the cups to turn them over again, fo that the balls may be fhown which were to be paffed into them. The third is when the operator intends to fhow that no balls are in the cups, or that there are fome.
XI. To cover a cup. This is really done, by taking with the right hand that which is to be put over ano. ther, and introducing at the fame time a ball between the two.

X1I. To recover a cup. It is done by tahing with the left hand the cup to be put over or above, without introducing any thing into it.

4 Z
Th

Performances with

Thie Penfonmances.

1. To prac a lell under ea-h cup, and take it one again. Havisg pliatd on the table the three cups and little rod, as thewn in fig. I. the perforner muft begin his manceuvrec, by endeaveuring to amufe the fpectators srith fome hind of entertaining difcuurfe. Nothing can be more apropos than the origin of the little rod and cups; and he mult be very alfduous in this fort of difcourfe, to take off the eyes of the fpectators as much as pollible. The following may be a fpecinuen of the :manner in which he ought to adorefs his audience: " There are many perfons who meddle with the play of the cups and balls, and yet know nothing about them. This is by no means extraordinary: even I who now play before you, pretend to know but little. Nay, fome time ago, I was fuch a novice as to think of playing before a numerous affembly with glafs cups, in which you may guefs I did not meet with great applaufe. I do not indeed practife this method but before fuch as are actually blind; neither do I play with China cups, left, through awkwardnefs in feigning to break their handles, I thould do fo in realiy. Thefe are the cups which anfwer my purpofes. They are made of fuch metal as the alchymifts attributed to Jupiter and Mars, or, to fpeak more properly and intelligibly, they are made of tin. Behold and examine thefe cups (Boring the cups to the company, and puting them on the isble: ) All my fcience, and it is in that in which it is admirable, confifts in deceiving the eyes, and paffing the balls into the cups without your perceiving how it is done. I advife you therefore to pay no attention to my words, but to examine well my hands, (Joowing his hands). If there is in this company any perfon who has the misfortune to ufe fectacles, he may retire; but the moft clear fighted will fee nothing there.
"Here is the little Jacob's rod (Bowing the rod with the left land) ; that is to fay, the magazine from which I take all my balls (anking fecrethy with the other hand a ball from his bag, which he hides between his fingers). There is not one in England fo well furnilhed. Obferve, that the more I take from it the more remain : I draw from it (VlII.) this ball (Jhowing it, and placing it upon the abble, (I.). Obferve that there is nothing under the cups ( $\beta$ bowing the infide of the cups), and that I have no other ball in my hands, (flowing his hands). I take (VI.) this ball: I put it (iI.) under the firft cup. I draw (TiII.) a fecond ball from my little rod, and I put it under this fecond rup (actually done). It is proper here to tell you, that the generality of thofe who play the cups only feign to put the balls there; but I do not deceive you, and I atually put them there. (He raifes the cup B , and taking the ball which he has put under it into his ,ight hand fingers, foows it to the company). I return it (II.) under the fame cup. I take (VIII.) thisthird, and put it (II.) in the fame way under this laft cup. You are about to fay that this is not very extraordinary, and that you could do it as well yourfleses. I agree with you; but the difficulty confifts in taking out thefe balls again through the cups, (Ariking the firf cup with the rod). I take (VIII.) this firle ball ( Nowwing it). I put it (II) into my han!, and fend it to Conftantinople, (he opens the lefi haid). I take
(VIII.) this (Arieing with the rod on the fecond cup). I put it (II.) into my hand, and I fend it to the Eati Indies, (opening his left liand). I take (VIII.) the lalt and 1 put it (1.) on the table: Obferve that there are no more under any of thefe cups (turning down the cuips with the rod).
2. With the fingle ball remaining on the table to pafs a ball through eack of the cups, and to take it off from thee fame. "I return the cups to their places, and take (VI.) this ball, and I put it under this firfl cup. I take it back again (VIII.) : obferve that it is not there now, (raifing (X.) the cup with the lefi hand). I put it (1I.) under this other cup: I take it out again (VIII.) in the fame manner, (raiing (X) the cup). I put it (II.) under the laft cup, and take it out again (VIII.) (raijing the laft cup with the left hand, and placing the ball on the table).
3. With the fingle ball romaining on the table, to take ariay a ball throught two or three cups.- In this performance the three cups are diftinguilhed by $\mathrm{A}, \mathrm{B}, \mathrm{C}$, as in fig. r.
"I never have any ball fecreted in my hands, as the greatelt part of them, who play the cups and balls: have (flowing his hands). I take (VI.) this ball, and I put it (II.) under this cup B. I cover it (XII.) with this cup C, and I take again (VIII.) this ball through the two cups (fliozes the batl placing it on the toble, returns afterwards the cup C to its place, and raifes (X.) the cup. B thow that there is nothing there.) I take again (VI.) this fame ball. I put it (1I.) under the fame cup B: I cover it (XII.) with the two other cups $C$ and $A$; and I take out (Vili.) this ball through the three cups (Jhozeing it and placing it on the table).
4. With the fingle lall remaining on the table, to pals the fame ball from cup to cup. "I now beg of you to pay every poffible attention, ana you will very diflinetly fee this ball pafs from one cup into the other (putting the cups at a grcater difance from each other). I take (Yl.) this ball, and I put it (II.) under the cup C : there is nothing under this cup $\mathbf{B}$ (raifing it, introducing the ball and saking the rod in his hand). I command that which I have put under the cup to pafs under that B. You fee it (noving the end of the rod from one cup to the other, as if he followed the ball): obferve that it is paffed (raiing the cup with his left hand, and taking the ball with his right, 乃oows it to the company.) I return it (II.) under this cup B; there is uothing under this A (raifing the cup with his right hand, and introducing the ball there). I am going to pass it under this laft cup A. Look rell; come near: (making as if feeing it he would fbow with the end of the rod the path that it took. You did not fee it pafs? I am not much furprifed: I did not fee it myfelf; however, here it is under the cup (raifing the cup A, and placing it on the table.)
5. With the fame ball rentaining on the table. The cups being covered, to pafs a ball from one into the other, without raifing them up.-I was very right in telling you, that the moft clear fighted would not fee very nuch; but for your comfort, here is a trick in which you will fee nothing at all. I take this ball, and put it (II.) under this cup B. I cover it (XI.) with the two other cups (baking one in each hand, and introducing the ball upon the cup B) : pay attention, that there

Cerform- is abfolutely nothing in my hands (/bowirg thom). I ces with command this ball to mount up upon the firt cup ups and Balls. hic (bores that it has mounted'). I return (I1.) this trall under the fame cup B. I cover it as before (cozers is in taking a cup in each land, and introducing a ball between the fecond and third cup). I take (the only ball with whick he plays being under the third cup, he cannot bow it, but acts as if he had taken it out, and puts it into the fingers of his left hand, which he holds in the air, in conducting the hand from one fide to the other.) I take the ball, which is under thefe three cups; and I throw it through the firtt cup (feigning to throw it): obferve that I have not conjured the ball, having nothing in my hands (foweing them); it is palled, however, (raijng the firk cup with the left hand, putting the ball upon the table and the cups in their places).
6. With the fingle lall remaining on the table, to pafs a ba.! through the table and two cups.-"You are undoubtedly furprifed, that, having but a fingle ball, I have been able, after having fhown it to you, to pafs it under this cup without raifing it; but let not that aftonilh you: I have fecrets much more wonderful. I convey, for example, the fteeple of one village into another: I have fympathetic quadrants, with which a converfation may be held at 200 leagues diftance: I have a fiying chariot which can conduct me to Rome in three days. I will fhow all thefe curiofities as foon as my machines are entirely comp'eted; that is to fay, in a few centuries: but to amufe you till the arrival of ali thefe prodigies, I now continue the entertainment of the cups and balls. I put (II.) this ball under the cup A. I take it away again (VIII.) (fbowng $\dot{z}$, and feigning to put it into his lefo hond fagers). I coFer (XI.) this cup with the two others B and C (introdiucing the ball hetrueea thefe two cups, uling always the right hand, and feigning fitll to hold it in his left), and I pals this fame ball through the table and the two cups (putting the left hand under the table). There it is pafted (rajing the frof cup).
7. Wuth the fane ball. A ball having been put under - cup, to take it away again, and to pafs it between two others.-" Here is again a very pretty trick: I take this ball, and I put it (II.) under this cup A. Obferve, that there is nothing under the others (/bowing them and introducing the ball under the cup C), nor in my hands: I take this ball, which is under the cup A (feigning to take it out, and raifigrg the bottorn of the cup So that the fpectators may not atteud to his fingers). I cover this cup C with tle two others A and B , and I throw it (IX) through thefe two cups (raifing them, and fiouring that the ball is pafled there).
8. With this firgle bell and a folling; to pals a ball from one hand into the other.-"I take this ball; I put it (II.) into this hand, and I put into the other the milling. In which hand do you think the ball is? or in which do you think the fhilling may be ?" (Whatever anfucer the fpelfator makes, the performer flows him that he is mifaken, and that the whole is in the right liand; and this truth forves a, a pretence to take a ball from the bag in purting the frilling back into it.)

The rerformer may, however, without breaking the eonnexion cí thefe operations, difpenfe with this trick,

## D E M A I N.

and feign to drop the ball he plays with, which affords him a pretence for taking another.
9. Whith the ball remaining outhe table, and that w! fiche is fecretly taken out of the lag; to pajs under a cup the ravo balls put under the others.-The operator goes on with his difcourfe: "In order to give you fill farther amufement, I take this ball and cut it in two (tnking it in his lefi hand, and holding the roold with his right; foigning 10 cut it, he puts afterwards the tod on the lable, and brings hack to his fingers ends the ball which he wok out of the bong). Nuthing is fo commodiour as to be ahle in this manner to muliply the ba'ls. When I am in want of money, I cut them ag.in and again, until I may have had five or fix buthels (placing the two balls on the table). Obferve that there :s nutling und this cup A. I put there (11.) this frit ball: there is nothing more under the two other cups (introducing the ball under the c:p B). I take this fecond ball, and I put it (11.) under the cup C: there is now a ball under thefe two cups A and C. I take away (Vliil.) from this cup C this ball, and 1 throw it (IX.) through the middle cup B : obferve that it is paffed (raifing the cup B, and introducing there the fecond bali). I command this, which is under the other cup $A$, to pafs under the fame cup B (raifing this cap, and fbowing thnt they are bsth there, and placing them on the table).
10. Weth the two balls which are upon the taule. Two bnlls having been put under the fame cup, to pafs them under two others.-" When I was at college, the tutor told me, it was neceffary to know how to do my exerciie in two ways. I have jut now pafied thefe two balis into the middle cup; 1 am now to make then go out ; the one is not more difficult for me than the other. I take therefore thefe two balls, and place thena under this cup 13 (putting one ball under the cup, and conjuring the other); obferve that there is nothing under the cup A , nor under the other C (introducing into this laft the ball that he conjured): I command one of thefe balls, which are under the middle cup, to pals under the one or the other of thefe two cups A and C. Behold it already gone (rajifng the cup B to foow that there is no more than a fingle ball; and taling, with tho right hand, the ball wevich is underneath, he (bozes it, and puts it (11.) under the fame cup B). Leet us fee into which cup it has palled (raifing inmmediately the cup A, and introducing the ball that he toons from the cup B): here it is uncter this cup C (raifing the cup); I command the other ball to pafs under this cup A (he raifes it, and Noows that it paffed there)." This trick is frequently done with three balls, but it appears much more extraordinary with two.
11. With thefe two balls, a third which he foows, and a fourth fecreted in his hands; to pafs three balls under the fame cup.-." All this is but a trife; I am going to fhow you another trick with three balls (taking out of the bag a third ball, and placing it on the table, fecreting at the fame time a fourth in his hand). Obferse that there is nothing under any of thefc cups (raifing thern, and introducing them under the cup C). I take this firlt ball, and throw it (IX.) through this cup C. Obferse that it is pafled (raifing (X.) the cup with the right hand); I take this fecond ball, and throw it (X1.) through the fame cup. 'There it is paffed (raijing (X.) again the cup); I take the third, and I make it pafs the $4 \% 2$
fane

Putom- fam: (rainng (X.) the cup, and foroing that thefe are ances wth paffed under alt the three).
Cups and
Balis.
12. Whith the three balls remaining under the cup, and
that hold ficretly in the hand; 10 pafs two balls from one cus into another, at the choice of a perton, without touchins ank; of the cups.-."Here is another in which I have never been able to comprehend any thing; but it will attonith you much (raiing the cup C , and taking away the three lants fiom their places, he pitts them under each cup, ant in raiting the cup C witroduces there the fourth bo!! culuch he hell! fecretly in his hond). I take this ba!l (that which is under the cup B), and I put it (II.) under the fame cup. I take this (the ball from the cup A), $n^{3}$ I olace it (I.) under the fame cup (putting there nilo hat which suas fecreted in his hand): I take this iw't, and I throw it (lX.) through the cup C; and to the that I do no deceive you, behold it paffed (raifing (X.) the cup that has been fived upon, which fuptore to be C , and Bowing that there are (wo). I take acain the fe tho balls, and put them under the cup C (putsing really but one): onferve that there is no more under this cus $B$ (introducing there the ball that he had juft taken away, and Bowing that he had no other in his hand); I conmand one of thefe balls, which are under this cup $C$, to go and join that which is under this $\mathbf{A}$. Obferve tbat it is paffed. There! (raifing the cup C, and returning the two balls under the f? ile cup, and raifing $C$, in ordet to hrow that there is but a fingle one; on: he places it again under the fame rup: he does not raife the cup B urder which a ball remains).
13. With the three balls that seve placed upon cups, and that which remains hidden under the middle cup; 10 pafs under the fame cup the halls put under the others."I take this ball (that which is upon the cup C), and I put it (II.) under the fame cup C ; and I order it to pafs into this cup B: there it is pafed (in raifirg this cup he introauces a third bull.) I take this third ball, and put it (II.) under this cup C; and I command it to pefs into the cup $B$ along the table, and in the fight of the fpectators (taking the rod in his left hand, feigning 10 flow the way that it paffed between the two cups). You did not fee it then? Here it is (He draws it (VIII.) from the end of the rod, which appears 10 flow it). Go quickly (throwing it (1X.) through the cup B ; and flowing that they are all three there, and that there is nothing under the tur othere; placing afterwards shree of the balls on the table, and focreting the fourth in his land.)

15 With the three balls remaining upon the table, and that which is held fecrcily in his hand.-MItltiplication of the talls.

For this trick there mult be a tin vafe (fee fig. 8.), at the bottom of which there mutt be contrived a falie bottom A. which will fall down at pleafure; that is to fay, in reverfing it upon the table, by means of a fmall trigger placed at the bafe of one $o^{6}$ the handles $B$, introducing previoufly between the falfe and true bottoms a dozen of balls. The operator goes on with his difcourfe.
"If any of the company believe in witclocs, I would give my advice that they fhould believe in them polonger; as what I am about to do is much more furprining itran the fents of nay witch.-I put (I.) thefe three balls under the three cups you fee on the table: I take away (VII.) this frit ball (chat which is
under the cup C ), and I.put it (II.) into this rafe. take this, and I alfo put it (II.) into the vafe. take away (VII.) this third (that which is under the cup A), and I throw it (II.) the fame way." (Every time that he raifes one of the cups to take aveay the ball, he introduces that which atways remains fecreted in his right hand; and this he repeats, confantly taking out ore ball and putting in anuther, tiil he has istroduced a!l the twelve balls; after which he refumes his difcourfe.) "You imagine, pernaps, that I always make ufe of the fame balls; but to prove the contrary, here they are, (inverting the vafe fo as to turn them all out.)

In this trick, if the vale be well made, the infide may be thown, and it may even be previoully inverted; in which cafe, it will not be fuppofed that any balls have been put into it.
15. With the three balls remaining under each of the cups, and that which is hidden in his hand; to pafs one ball under each of the three cups.
"I put all thefe balls into my pocket. I take (V1.) this (the one fecreted in his hand), and I make it pafs through the table under this firft cup C , (conjuring $i_{t}$ ). I take another from my bag (flowing the fame ball). I make it pafs in the fame mamer through this B , (conjures it again). I take a third (howing fill the fame), and I make it pafs under this lall cup A (conjuring it). Here aie all the three paffed (urning over the cups, and in taking them up again introduces the ball that he has in his hand under the cup B , and puts the three balls upon the three cups.
16. With the three balls put upon each cup, and that which was introduced under the middle cup; 10 drawn two balls through the fame cup.-" There will be wanted now only two balls." Here the operator takes that which is under the cup C, and puts it (II). into his bag. He takes in the fingers of his right hand the ball which is on the cup B, Thowing it; and with the other covers the cup $B$, with that palling (IV.) there the ball which he feigned to put into his bag. $H e$ ther takes the ball which is under the cup $A$ with the right hand; and, howing a ball in each hand, tells the company that he put them (II.) under the cup A; though he actually puts but one, which he holds in his left. He then draws one of thefe balls through the fame cup A, fhowing it, and placing it upon the cup $C$. He then raifes the cup $A_{2}$ and takes the ball which is under it with his righthand, adding, "There remains but one more." While pronouncing thefe words, he puts it (II.) under the cup. "I take (adds be) the other ball," raifing the cup, and foowing that it is there no longer); then, taking one of the two bulls which feemed to remain alone, he put it (II.) into bis bag, faying, "I return this into my bag."

1. With a ball which is hidden under the middle cup, another hidden under shat which covers it, that which remains in the hand, and a fourth which is upon the table; 10 puls the fame ball fucceffively through the three cups.The preceding trick was only on purpofe to prepare the fpectators for this; as they now imagine that the performer played only with one ball. He may now addrefs then in the following manner:
"I am now going to make a very pretty trick with this fingle ball. I formot to flow it to you at the beginning: I cover (XI.) thefe cups (putting the cup.
erform- A upon C and B). I tale (Yi.) this ball, and Ithrow it (IX.) through the firt cup;" (raifing (X.) the cup A with the righlit hand). He then thows that it is pafied between $C$ and $A$; and, putting it in its place, he introduces there that which he has in his hand. "I take (lays he) (VI.) this fane ball, and I throw it through the other cup C;" and white he fays fo, he raifes (X.) the cup C, flowing that it has palled, introducing there that which he has in his hand, and putting it in the place of the former. "I take again (continues he) (VI.) this fame ball, and I throw it (IX.) through that latt cup B," (raifing (IX.) the cup B). Daring which time he takes away the ball from under it with his left hand, then places it on the table, and returns the cup to its place, introducing there the ball which he has in his left hand.
2. With the three balls which are under the caps, that which is on the whle, and two which be takes from the bag; to pafs under a cup the balls put under the two others without raifing thefe laff. -The performer may proceed in his dilcuurfe in the following manner:
" Let us now rcturn to the order of the entertainment which I have interrupted, and continue to play with three balls." He now takes two balls from his bag, by which means he in fact plays with fix balls, though he pretends to play only with three. Thefe two balls, together with that which remains on the table, he puts on the top of each cup. "I take (fays he) (VI.) this ball, (that which is on the cup C). I throw it (IX.) through that cup: there it is paffed." He now raifes (X.) the cup, hows it; and thus has an opportunity of introducing the ball which he has in his hand. "I take (VI.) this (the ball which is under the cup B ), and throw it (IX.) through the cup B." At this he raifes the cup with his left hand, Dhowing that it has paffed, and covering it again. "I take again (VIII.) this ball from the fame cup, and throw it (IX.) through that C : obferve that it is palfed." Then, raifing up (X.) the cup C, fhowing that there are then two there, he introduces other two which he had in his hand. "I take (fays he) (IV.) this ball (that which is under the cup A), and 1 throw it (IX.) through the fame cup A. There! it is paffed," (raifing the cup C; after which he fhows the three balls, and introduces there that which was in his hand, putting the three balls upon the tabie.
3. With the three balls which remain under the cups, and the three others which remain upon the table; to pafs feparately the three balls through each cup. In this mancuvre the performer puts again the three balls which are upon the table upon the top of each cup. He takes that which is on the cup C, and throws it (IX.) througb the fame cup; and while he announces this to the company, he raifes (X.) the cup: taking away (VIII.) the ball, thowing that it has paffed, introducing there that which was in his hand, and putting the fame ball upon the fame cup. He then takes that which is uvon the cup B, and throws it (IX.) through the fame cup; fhows that it is palled, takes it away (VII.) and introduces the ball that was in his hand under this cup, putting it in like manner on the cup. Then he takes the ball which is on the cup A, and throws it (IX.) through the fame cup A. As he announces its pailage he raifes the cup, taking away (VII.) and fhowing the ball; introdu-
cing in the fame manner that which was in his hand; puiting this firlt at the top of the cup $A$, and then fhows that it is not in his hand, and that he has but three balts.
4. With the three lalls remainims upon the table, and thofe which are undir cach cup. Hawing put the balls: into the \}ay, to make therit return under" the cups.-"I take thefe three balls, and 1 return them into ay bay, (keeping one in his hand). Behold to what all is recuuced that I had to thow you for your amufement. I did know fome more very pretty tricks, but I have forgot them. (Prctending to mufe for a moncut): Aln! 1 ftill remember two or three very pleafing ones. Come, my little balls! Return under the cups, (turni:lys over the cups.). See how nimble they are, and obedient at the fame time;" (covering them again with the cups.)
5. With the three balls which are undor the cups, and that in his hand; 10 pafs the lalls through the two cups.--Here the operator begins with taking away (V11.) the ball which is under the cup C ; hc covers it with the cup B ; and paffes (HI.) the other ball which he has in his right hand betwcen the two cups. He then takes (VI.) the ball which the had in his left hand, and throws it (IX.) between the two cups B and C. In amouncing its paflage he raifes the cup ( $X$ ), fhows that it is paffed, and introduces the ball in his hand. He then takes the ball undcr the cup B, and throws it (IX.) through the two cups C and B . Announcing to the company its paffage, be raifcs (X.) the cup, and hows that there are two balls, introducing (111.) at the fame time the third. He then takes the latt ball, viz. that which is under the cup A, covers again with the left hand the two cups B and C , and throws (IX.) the third ball through thefe two cups. He then announces their paflage, raifes the two cups, and fhows the three balls, covering again the cup C with the two others.
6. With the thrce balls which are upon the cup C , and the one in his hand; to take out the three through two cups.-"I take (fays the performer) (VIII.) the firt ball, and put it (11.) into my bag. I take (V111.) in the lame manner the fecond, and I put it alfo into my bag. I take (VIII:) the third, and I put it into my bag, (putting in really that which he had in his hand.) While he defires the fpectators to obferve that there are no more in the cups, he railes the cup A with the left hand, and, putting it in its place, raifes with the right hand the cup C. In fupporting it with the cup B , he puts it down quickly, and a little on the fide of B , and at the fame time places $C$ on the table, under which will be found the three balls, which had not time to feparate.
7. With the three balls remaining under the middle cup, and three others taken out of the bag; to pafs, in one ation, three balls through a cup.-This trick is begun by the performer taking three balls from his bag, and putting them on the top of the cup $B$, which he covers with the cup A. Ordering them to difappear and to pafs under the cup C, he takes away very fuddenly with the left hand the cup B, as is done in the preceding trick, leaving in the middle of the play the cup C, under which the balls are found. Taking them then away, and replacing them on the fame cup, he makes them return again in the fame manner under the

Perforai- cup C. At laft he takes the three balls, and putting ance: wit Cups and Pails. them in his bag, pretends to pafs them through the table under the cap where the others were. He then
returns two or three of thefe laft balls into his bag, and takes two white balls, which he nuts upon the t.atic.
4. With the black ball remaining on the table, two s.arer white balls, and a black wiere which he holds ficre:it in his hand; to pats threc batls from one cup into an. cher.
N. $B$. To make the balls white, they are mbled with a little chalk inftead of being blackened with the candle.
" Let us now (Cays the operator) have a trick to prove that I do not conjure the balls. There is nothing under this cup C , (introducing the black ball that was in his hand). There is no great thing under this B. I place there thefe thrce b.ills, (the three which are upon the table, of which he conjures the white one.) There is nothing more under this third cup $A$, (introducing there the white ball). I order one of thele two white balls which are under the cup $B$, to pafs under this A." With thefe words be railes the cup B; and taking the white ball in the fingers of his lefi hand, and the black one in thofe of the right, he thows th in, faying, "Obferve that there is but one white one. I put again thefe two balls under the cup E." While fpeaking thus he puts the white one under the cup, and conjures the other, while fcigning to put it in with that of the left hand. He then announces its paffage; and while he does Co , raifes the cup A , and introduces the black ball. Commanding then the black ball to pafs under the cup $A$, he raifes the cup P, takes in his right hand fingers the ball which is there, and fhows it. "I put it again (fays he) (II.) under this cup (conjuring it); and I how you that it is paffed under this A, (introducing there the white ball.) I order at latt the white ball, which is under this cup B, to pafs into this A." While telling the company that it is paffed, he raifes the cup $\hat{A}$, and puts the three balls upon each cup, the black one upon the middle.
25. With the three balls put at the top of the cups, and that which has been inferted under one of them in the preceding trick; to change the colour of the balls. The operator goes on with his difcourfe: "If there is any one here who knows how to play the cups and balis, he will do well to obferse, that it is not poifible to do this trich by the common method, and with three balls only. However I have no more, (flowing his kands). I take this white ball (that which is upon the $\operatorname{cup}$ C), and I throw it (IX.) throurh this cup (the fame under whick he left a black lall in the preceding trick. I take this black ball (with the left hand fingers) ; there is nothing under this cup B, (introducing there the white ball). I throw it (IX.) through this cap B , (taking again the ball in his right hand fngers). I take th:s other white ball, (with his left hand fingers). There is nothing under this cup A , (introducing the black ball): I throw it (1X.) through the cup A, (taking it again into his right hand fingers to conjure it). Obferve that they have all changed their colour." (covering each of them with their cups).
26. W" th the three balls whic!! are left under the cups, two white balls, and a black one that he sook brick by trick
from his bag; to change the fizes of the balls.--In performing this trick the operator takes away the w ite ball whic', is under the cup C with his left hands fin gers, and, rainng the cup with his right, introduces there a white baill which he took out of liis bag. The whie wall which he introduces is hept in his hand with the frurth and little finger; and be ralfes t.ee cup in the fame manier as when te introduces the balis. In turning over the cup afterwards, be advances his hand to intreduce this ball. Thefe balls fhould be filled with horfe hair or paper, fin that they may be very light, and make no noif. The operator then tells his company, that he makes the ball pafs throu: h the table under the fame cup; and while he fpeaks thus, he takes the ball again in his right hand, and while putting his hand under the table, fie takes a black ball out of the bag. He the: talies away the ball from the cup B, introducing the black one in its Mead. He then tells the fectators, that he makes it repafs through the table; and, while he tells them fo, he takes a white ball; then, while taking away that which is under the cup A , he introduces that ball, making it repars in the fame manner through the table, anf at lat thans them to the company, and covers them with their cups.
27. Whith the thiree balls which are under the cups, tivo other Hack balls, and a white one that was taken trick by trick from his bag; to pafs the balls from one cup into anoiker.-"Oblerve well (fays the operàtor), that there are two white balls under thefe two cups $A$ and C , and a black one under this (raifing the cups). I cover agsin thefe three balls (coviering each of them with o cup.) I make to pafs out through the table the shite bail which is under the cup C." Here he takes a white ba!! from his bag ; and in order not to fail, the black and white balls ihould be in feparate pockets. Having taken out the ball, he puts the firft into his bag, telling the company that there is now nothing under the cup C; and while he fays fo, he raifes it, holding the ball with his little finger, proceeding in his difcourfe as follows: "I take away this ball (that which is under the cup A). and I pafs it through the table under the cup C (taking a black ball from his bas.") While the palfage of this ball is announced, he raifes the cup C to take it away and thow it; introducing there this black ball, "I put again (fays he) this other white ball into my bag, and I command the black one which is undct the cup B to pafs under this. It is no longer under this cup:" and while he fays fo, he raifes the cup B, in fupporting with his little finger the ball which remains there. Announcing its paflage, he raifes the cup $C$ and flows the ball; taking it afterwards into the left hand, throws it into the air; returning it into his right hand, and feigning to throw it into the air a fecond time, he lets it fall into his bag; cafling his eyes upwards and downwards as if he fars it fall upon the cup B : he raifes this cup, and mows it to the fpeftators, as the former, pafied througl: the cup.

## Sect. II. Performances with the Cards.

Previous to the performances with cards, it will be ucceflary to explain the $n$ ethod of making the pass; that is, bringing a certain number of cards from the

Yerionn- botton of the pack to the top; as many of thele peranes with formances depend on that marocuvre.
I. Hold the pack of car's in your right hand, fo that the palm of your hand may be under the cards: place the thumb of that band on one fide of the pack, the Enff, fecond, and third fingers on the other fide, and your little finger between thofe cards that are to be brought to the top and the relt of the pack. Then place your leit hand over the cards, in fuch a manner that the thumb may be at $C$ (fig. 22, 21.), the tore finger at $A$, and the other fingers at $B$.

The hands and the two parts of the cards being thus difpoled, you draw off the lower cards confinced by the little finger and the other parts of the right hand, and place ther, "ith an imperceftible motion, on the ion of the pack.

It is quite neceffary, before you attempt any of the experiments that depend on making the paf, that you can periorm it fo dexterolily that the eye canat diftinguith the motion of your hand ; otherwife, inttead of deceiving others, you will expofe yourfelf. It is allo proper that the cards make no noifc, as that will occalion fufpicion. This dexterity is not to be attained without fome practice.

There is a method of preparing a pack of cards by inferting one or more that are a fmall maiter longer or wider than the relt; which preparation will be necelfary in feveral of the following experiments. the pack at that part where the long card is, and pre- fent the pack to a perfon in fuch a manner that he will naturally draw that card. He is then to put it into any part of the pack, and thufflc the cards. You take the pack, and offor the fame card in like manner to a fecond or third perfon; oblerving, however, that they do not fland near enough to fee the card each other draws. You then draw feveral cards yourfelf, among which is the long card, and alk each of the parties if his card be among thefe cards, and he will naturally fay Yes, as they have all drawn the fame card. You then ibufle all the cards together, and cutting them at the long card, you hold it before the firlt perfon, fo that the others may not fee it, and tell him tbat is his card. You then put it again into the pack, and huffling them a fecond time, you cut again at the fame card, and hold it in like manner to the fecond perfon, and $f 0$ of the relt $(A)$.

If the firft perfon fhould not draw the long card, each of the parties muft dran different cards; when cutting the pack at a long card, you put thofe they \}ave drawn over it; and leeming to fhuffle the cards indifcriminately, you cut them again at the long card and fhow one of them his card. You then thuffe and cut again, in the fame manner, and fhow another perfon his card, and fo on : remembering, that the card drawn by the laft perfon is the finf next the long card, and fo of the others.
'This experiment may be performed without the long
card, in the following manner. Let a perfon draw ferfore any card whatever, and replace it in the pack: 子uu apces \&pit then make the pals, and bing the card to the top ond the pack, and thumbe them without lofing fight of that cand. You then officr that card to a lecond ferfon, that he may draw it, and put it in the midde os the pack. Tou make the pafs and limfle the cards a tecond time in the lame mamer, and orer the card to a thited perfon, and fo again to a fourth or fifin, as is more fully explained further on.
3. You let a perfon draw any four cards fiom the The four pack, and tell him to think on one of them. When he confederaretuins you the four cards, you dexterounly place two ted card.o of them under the pack and two on the top. Under thofe, at the bottom you place four cards of any fort; and then, taking eight or ten from the bottom cards you Spread them on the table, and alt the perfon if the card he fixed on be among them. If he fay No, you are fure it is one of the two cards on the top. You then pafs thofe two cards to the bottom, and drawing off the lowef of them, you afk him if that is not his card. If he again fay No, you take that card up, and bid him draw his from the bottom of the pack.

If the perfon fay his card is among thofe he firft drew from the bottom, you muft dexteroutly take up the four cards that you put under them, and, placirig thofe on the top, let the other tro be at the botom cards of the pack, which you are to drew in the manner before defcribed.
4. After a card has been drawn, you place it under Divination the lung card, and by fhutfling them dexieroufly jou by the bring it to the top of the pack. Then lay or throw the fword. pack on the ground, obferving where the top card lies. A handkerchief is then bound over your eyes, in fuch a mamer however that you can fee the ground, which may be cafily done. A fword is then put into your hand, with which you touch feveral of the cards, leemingly in great doubt but never lofing figint of the top card, in which at laft you fix the 'point of the fword, and prefent it to him who drew jt. Two or three cards may be difcovered in the fame manner, that is, by placing them under the long card, and then bringing them to the top of the pack.
5. You mult have in the pack two cards of the fame The trantfort, fuppofe the king of Spades. One of thefe is to be mutable placed next the bottom card, which may be the feven cards. of hearts, or any other card. The other is to be placed at top. You then fhuffle the cards without difplacing thofe three cards, and how a perfon that the bottom card is the feven of hearts. Then drawing that card privately afide with your finger, which you have wetted for that purpofe, you take the king of fpades from the bottom, which the perfon fuppofes to be the Seven of hearts, and lay it on the table, telling him to cover it with his hand. You then Thufle the cards again, without difplacing the firf and laft card, and paffing the other king of Spades at the top to the bottom, you fhow it to another perfon. You then draw that
(1) There is frequently exinbited another experiment, fimilar to this, which is by making a perfon draw the long card; then giving him the pack, you tell him to place his card where he pleafes and thufle them, and! you wild then name his card or cut the pack where it is. You may allo tell him to put the pack in his pockee. and you will draw the card; which you may cafily do by the touch.

Perform- that privately away; and taking the bottom card, ances with which will then be the feven of hearts, gou lay that on the Cards. the table, and tell the fecond perfon, who believes it to be the king of fpades, to cover it with his hand.

You then command the feven of hearts, which is fuppofed to be under the hand of the firt perfon, to change into the king of fpades; and the king of fpades, which is fuppoted to be under the hand of the fecond perfon, to clange into the feven of hearts; and when the two parties take their hands off, and turn up the cards, they will fee to their no finall aftonithment, after having fo carefully obferved the botom cards, that your cominands are punctually obeyed.
6. Take a card, the fame as your long card, and rolling it up very clofe, put it in an egg, by making a hole as frnall as poffible, and which you are to fill up carefully with white was. You then offer the long card to be drawn; and when it is replaced in the pack, you thuffle the cards feveral times, giving the egg to the perfon who drew the card, and, while he is breaking it, you privately withdraw the long card, that it may appear, upon examining the cards, to have gone from the pack into the egg. The experiment may be rendered more furprifing by having feveral eggs, in each of which is placed a card of the fame fort, and then giving the perfon the liberty to choofe which egg he thinks fit.

This deception may be ftill further diverffied, by having, as moft public performers have, a confederate, who is previoully to know the egg in which the card is placed; for you may then break the other eggs, and thow that the only one that contains a card is that in which you directed it to be.
7. Divide a piquet pack of cards into two parts by a long card. Let the firft part contain a quint to a king in clubs and fpades, the four eights, the ten of diamonds, and ten of bearts; and let the other part contain the two quart majors in hearts and diamonds, the four fevens, and the four nines ( B ).

Then fhuffle the cards, but obferve not to difplace any of thofe cards of the laft part which are under the long card. You then cut at that card, and leave the pack in two parts. Next, prefent the firft of thofe parts to a perfon, and tell him to draw two or three cards, and place the remainder on the table. You prefent the fecond parcel in like manner to another. Then having dexterounly placed the cards drawn by the firft perfon in the fecond parcel, and thofe drawn by the fecond perion in the firt parcel, you fhutfe the cards, obferving to difplace none but the upper cards. Then $\int_{\text {preading the }}$ cards on the table, you name thofe that each perfon drew; which you will very eafily do, by obferving the cards that are changed in each parcel.
The two convertable aces.
8. On the ace of fpades fix, with foap, a heart, and on the ace of hearts, a fpade, in fuch a manner that they will eafily flip off.

Show thefe two aces to the company; then taking the ace of fpades, you defire a perfon to put his foot upon it, and as you place it on the ground, draw away the fade. In like manner you place the feem-
ing ace of hearts under the foot of another perfon. Perforn You then command the two cards to change their ances wi places; and that they obey your co:nmand, the two $\underbrace{\text { the Care }}$ perfons, on taking up their cards, will have ocular demonifration. A deception fimilar to this is fometimes practifed with one card, fuppofe the ace of rpades, over which a heart is placed flightly. After fhowing a perfon the card, you let him hold one end of it, and you hold the other, and while you amufe him with difcourfe, you flide off the heart. Then laying the card on the table, you bid him cover it with his hand. You then knock under the table and command the heart to turn into the ace of fpades. By deceptions like thefe, people of little experience and much conceit are frequently deprived of their money, and rendered ridiculous.
9. You muft be prepared with two cards, like The fiftee thofe rcprefented by fig. 22. and with a common ace thoufand and a five of diamonds.

The five of diamonds and the two prepared cards are to be difpofed as in fig. 23 . and holding them in your band, you fay, "A certain Frenchman left 15,000 livres, which are reprefented by thele three cards, to his three fons. The two youngeft agreed to leave their 5000 , each of them, in the hands of the elder, that he might improve it." While you are telling this flory, you lay the 5 on the table, and put the ace in its place, and at the fame time artfully change the pofition of the other two cards, that the three cards may appear as in fig. 24. You then refume your difcourfe, "The eldeft brother, inftead of improving the money, loit it all by gaming, except 3000 livres, as you here fee." You then lay the ace on the table, and, taking up the 5 , continue your Alory: "The eldelt, forry for having lof the money, went to the Eait Indies with thefe 3000, and brought back 15,000." You then thow the cards in the fame pofition as at firft, in fig. 22.

To render this deception agreeable, it muft be performed with dexterity, and fhould not be repeated, but the cards immediately put in the pocket; and you fhould have five common cards in your pocket, ready to fhow, if any one fhould defire to fee them.
10. Take a parcel of cards, fuppofe 40 , among To tell the which infert two long cards: let the firft be, for ex- number of ample, the 15 th, and the other the 26 th, from the cards by top. Seem to fhuffle the cards, and then cutting them ${ }^{\text {the weight }}$ at the firf long card, poife thofe you have cut off in your band, and fay, "there fhould be here 15 cards." Cut them again at the fecond long card, and fay, There are here only it cards." Then poifing the remainder, you fay, "here are 14 cards."
11. Several different cards being Joown to different To name perfons, that each of them may fix on one of thofcc cards; feveral to name that on which each perfon has fixed. -There which difmulf be as many different cards fhown to each perfon as ferent perthere are perfons to choofe: therefore, fuppofe therefons have are three perfons, then to each of them you mult fhow fixed. three cards; and telling the firf perfon to retain one in his memory, you lay thofe three cards dorvn, and how three others to the fecond perfon, and fo to the

Perform- third. You then take up the firf perfon's cards, and ances with lay them down one by one, feparately, with their faces the Cards. upivard. You next place the fecond perfon's card over the firlt, and in like manner the thisd perfon's card over the fecond's; fo that in each parcel there will be one card belonging to each perfon. You then afk each of them in which parcel his card is; and when you know that, you immediaiely know which eard it is; for the firft perfon's card will always be the firft, the fecond perfon's the fecond, and the third perfon's the third, in that parcel where they each fay his card is.

This experiment may be performed with a fingle perfon, by letting him fix on three, four, or more cards. In this cafe you mult thow him as many parcels as he is to choofe cards, and every parcel mult confift of that number, out of which he mult fix on one; and you then proceed as before, he telling you the parcel that contains each of the cards.
12. Make a ring large enough to go on the fecond or third finger (fig. 15.) in which let there be fet a large tranfparent fone, to the bottom of which mult be fixed a fmall piece of black filk, that may be either drawn afide or expanded by turning the fone round. Under the filk is to be the figure of a fmall card.

Then make a perfon draw the fame fort of card as that at the bottom of the ring, and tell him to burn it in the candle. Having firf fhown bim the ring, you take part of the burnt card, and reducing it to powder, you rub the fone with it, and at the fame time turn it artfully about, fo that the fmall card at bottom may come in view.
13. To change one card into another.-Provide a mahogany tea caddy about four or five inches deep, and long enough to admit a common-fized playing card: (fee fig. 9.) This caddy mult be furnifhed with a moving falfe bottom $B$, moveable upon hinges on the infide edge of the front $A$. This bottom may be made of brafs, tin, or lead ; and the falfe bottom muft be fo exactly fitted, that it cannot, from a fight view, be difinguifhed from the other. The infide of both caddy and falfe bottom ought to be lined with black or otleer dark-coloured eloth or velvet, fo that it may not make any noife in falling dorn. It would be proper that the falfe bottom floculd rife with a foring tovards the front, and it muft be kept tight with a brafs fpring catch (a, fig. 10.) fcrewed to the left fide of the box near the top, and which is hid by the cloth covering. . The end of this fpring projects a little into the front. It is driven back, to let go the falfe bottom, by means of a fmall bent wire $b b$ let into the front of the caddy; and this pin is moved by the bolt $c$, which, when the box is locked, thonts out againft it, by reafon of the fpring being driven in; hy which means the botiom fprings down, and covers the card place 1 in the box.

Before you attempt to fhow any trick with this cad$d y$, a card muft be placed, in the infide between the front $A$ and the falle bottom $P$, fpringing up the bottom afterwards again? the front; afrer which it is ready for ufe, and ftown openly to the company without any danger of a difcovery.

Tho perfons may now be defired to draw two dif. ferent carde from a pask, one of which eutult be the Yon. $\mathrm{K}_{1} 1$. Paxt II.
farme with the one concealcd in the caddy. Taling this card from the perfon who drew it, you put it in ances with the pack, pretend to flumfte it, but keep the card ei- $\underbrace{\text { the Cards. }}$ ther uppermoft or undermoft, fo that you can eafily find it afterwards. Defiring. then the other perfon to come forward and put his card very attentively into the caddy, you in the mean time fecretly convey away from the pack the card drawn by the other; then, giving him the key, you defire the caddy to be locked up. After fome pretended conjurations, defire him to unlock it again and take out the card; which he will find not to be his, but that drawn by his neighbour: his card being apparently vanilhed from the caddy, as the other is from the pack.
14. Provide two pieces of pafleboard $\Lambda$ and $B$ (fig. The two 11.) of equal dimenlions, $3^{\frac{1}{2}}$ inches iong and three magic portbroad. Place thefe befide one another, as fhown in fuiuso the figure. Take then a very fmooth filk ribbon, and put a band of it from $C$ to $E$ towards the cdge of the pafteboard $A$, and another from $D$ to $F$ in fuch a manner as to come beyond the palteboard, and to admit of being folded over at the two ends. This mutt be glued on the back of the board $A$ at the places $C$ and $D$, and at the back of the board B at the places E and F . Place two other bands in a limilar manner on the pafteboard $B$, turning them over on the back of the fame board at the places $I$ and $L$, and at the back of $A$ at the places $G$ and $H$. Thefe two bands mould fali in the infide of the patteboard, according to the breadth of the ribbons. The two pafteboards being now placed the one upon the other, will form a kind of port-folio, one of the fides of which will always be hinged when the other is opened. Four fmall bands of the fame ribbon are to be put at the four extremities of the fides MNQR of the two pieces of palleboard; obferving that they pafs below the bands already placed. Glue their ends in the fame manner as their ends at the back of the boards, ormamenting alfo the two fides O and P of the pafteboard B with pieces of the fame ribbon; but thefe fix laft bands are of no ufe in the performance.

Two pieces of paper folded like the cover of a letter mult now be provided, large enough to cover the two sibbors GI and HL, as well as the Ppace contained within them. Glue one of there upon the two ribbons, and apply the other below this; fo that the uppermoft of thefe two wrappers may fall exactly orcr the other, enclofing and hiding the two ribbons entirely. A fecond port-folio fimilarly conftrufted is now to be provided, and both of thetn covered with coloured paper from the fides where the ribbons are glued and folded.- The deceptions with thele portfolios are as follows:

1. Two cards, chofon at random, havius he:n fiut up in tum fiparate places; to make them pafs reciprocally from the one into the other:- The port-folios being conitructed in the manner above defcribed; if you open one of them either on the one fide or on the other, one of the paper wrappers will always be vilible; and thus it will naturally be fuppofed that there is no more but one. Having then fecretly enclufed a card in each of the wrappers of the port-folics, procure a pack of cards that has bat two forts, and caufe two perfons fairly draw two cards fimilar to the firft. Prefent then a port-folin, oyen, to the firt ferfon who drew a card 5 A Simila
resturn. Gmilat to that which was piaced in the fecond, deining arceresh him to place it in the wrapper which he finds vacant. Take brok the: the port-folio ; and, in placing it on the table, arteully turn it over: having placed likewife in the racant wraperer of the fecond port-folio the card drawa by the fecond perfon; and pating it in the fime way woun the table, cummand the cards reciprocally to pafs from the one port-folio into the other; and open them fo that each of the perfons may take cet the eard whicl the other inferted.
2. A car!! I cing flate up in the port-folio; to make it return into the jack-To perfom this, procure a pack which inat two cards of the lime kind. One of thefe is to be openty drawn, and the per.on who has done io muit be told to thut it up under the wrapper of one of the pott-folios; and inform him that you will make it return into the pack. Give him the pert-folio to blow unon; and on opening it, prefent him with the empty wrapper, to fhow him that his card is not there ; after mplich, prefenting him with the pack, he will find there the other card, which he will naturally imagine to be the one he put into the wrapper.
3. To make an anfuer appeer to a quefion fecretly grituch. Tranfcribe on diferent cards a certain number of quoftions, and on others' the fame queftions with cheir anfivers; taking care to have the handwiting as wuch azike as polible, fo that no difference can eafily be perceived. The fame caution muf be obferved with 2cgard to the cards thenfelves; which, for that realon, ought to be plain ones. Hzwing written with a pen(ii) at the bottom of the firt quellions their correfponding anfiwers, huut up one of them fecretly in the port. folio; and prefenting them to any perfon, let him draw as by chance that which is fimilar to the one thus mhit up. Make him then place in the other wrapper the queftion which he had drawn ; and telling him that you are about to write an anfwer even through the port-folio, take a glaff, and pretend to read in it the anliwer to the queltion. Open it afterwards, fo that he may take out the other card himfelf, and be will imagine it to be the one he felected.
In performing this trick, it will be proper to have a port-folio of the fame kind with the two defcribed, which opens only at one fide, and which corfequently lias but one wrapper. This mult be thown to fuch as feem to be too inquictive, and will be of ufe to prevent them from entertaining any idea that the folio opens upon both fides. The former muft therefore be immediately put into the pocket, in order to give an opportunity of drawing out the other in cafe the portfolio thould be alked for.
The card in 15 . Provide a mirror, either round, as $A$ (fig. 18.), the mirror. or oval, the frame of which muft be at leaft as wide as Plate rexict.
a card. The glafs in the middle murt be made to move in the tiwo groves CD and EF , and fo nucb of the quichfilver muff be fcraped off as is equal to the fize of a common card. You will obferve that
the glars muft likewife be wider than the ditance between the frame by at leat the width of a card.

Then jalte over the part where the quicktiver is rubbed oft a picce of pafteboasd, on which is a card that mull exasly fit the fpace, which muit at firft be placed behind the frame.
This mirror muft be placed agzinft a partition, through which is to go two Rrings, by which an af fillant in the adjoning room can cally more the glals in the grooves, and coniequently male the card app. pear or difappear at pleafure (c).

Maiters being thus prepared, you contrive to make a perfon draw the lame fort of card with that fixed to the mirror, and place it in the middle of the pack: you then make the pals, and bring it to the botom; you then dircet the perfor to look for his card in the mirror, when the confederate behind the partition is to draw it llowly forward, and it will appear as if placed between the glafs and the quichfilver. While the glafs is drawing forward, you lide off the card from the bottom of the pack, and convey it away.
The card fised to the mirror may eafily be changed cack time the experiment is performed. This esperiment may alfo be made with a print that has a glafs before it and a frame of fufficient width, by making a fit in the frane through which the card is to patis; but the effect will not be fo friking as in the mirror.
16. Place a vafe of wood or pafteboard AB (fig. 19.) The maron a bracket L, fised to the partition M. Let the vellous infide of this vare be divided into five parts, $c, d, c, f, g$; vafe. and let the divifions $c$ and $d$ be wide enough to admit a pack of cards, and thofe of $c, f, f$, one card only.
Fix a thread of filk at the point H , the other end of which paffing down the divifion $d$, aind over the pully I, runs along the bracket L , and goes out behind the partition M.
Take three cards from a piquet pack, and place one of them in each of the divifions $e, f, g$, making the filk thread or line go under each of them. In the divifion $c$, put the pack of cards from which you have taken the three cards that are in the other divifions.
Then take another pack of cards, at the top of which are to be three cards of tle fame fort with thofe in the three fmall divifions; and making the pafs, bring them to the middle of the pack, and let them be drawn by three different perfons. Then give them aill the cards to fhuflie ; after which place the pack in the divifion $d$, and tell the parties they thall fee the three cards they drew come, at their command, feparately out of the vale.

An afiifant behind the partition then drawing the linc with a gentle and equal motion, the three cards will gradually rife out of the vale. Then take the cards out of the divifion $c$, and how that thofe three cards are gone from the pack.

Performances with the Cards.

The rale mull be placed fo high that the infide cannot be feen by the company. You may perform this experiment alfo without an afliftant, by fixing a weight to the end of the filk line, which is to be placed on a fupport, and let down at pleafure by means of a fpring in the partition.

The divistiny perjective wide enough, at the end where the object glafs is placed, to hold a table fimilar to the following.

| 1.131 | 10.1132 | 19.133 |
| :--- | :--- | :--- |
| 2.231 | $11 . .232$ | 20.233 |
| 3.331 | $12 . .332$ | 21.333 |
| 4.121 | $13 . .122$ | 22.123 |
| 5.221 | 14.222 | 23.223 |
| 6.321 | $15 . .322$ | 24.323 |
|  |  |  |
| 7.111 | $16 . .112$ | 25.113 |
| 8.211 | 17.212 | 26.213 |
| 9.311 | $18 . .312$ | 27.313 |

Take a pack of cards that confifis of 27 only, and giving them to a perfon, defire him to fis on any one, then fhuffle them, and give the pack to you. Place the 27 cards in three heaps, by laying down one alteraately on each heap; but before you lay each card Gorn, flow it to the perfon, without feeing it yourfelf; and whea the three heaps are finimed, ank him at what number, from it 27 , he will have his card appear, and in which heap it then is? Then look at the heap through the glafs, and if the firf of the three numbers which flands againf that number it is to appear at be 1, put that heap at top; if the number be 2 , put it in the middle; and if it be 3 , put it at bottom. Then divide the cards into three heaps, in the fame manner, a fecond and third time, and his card will then be at the number he chofe.

For example: Suppofe he defire that his card fhall be the zoth from the top, and the firf time of making the heaps he fav it is in the third heap: you then luok at the table in the perfpective, holding it at the fame time over that heap, and you fee that the firit figure is 2 ; you therefore put that figure in the middle of the pack. The fecond and third times you in like manner put the heap in which he fays it is, at the bottom, the number each time leing 3. Then looking at the pack with your glafs, as if to difcover which the card was, you lay the cards dorm one by one, and the zoth eard will be that he fixed on.

You may fhow the perfon his catd in the fame manner, without afling himat what number it hall appear, by fixing on any number yourfelf.

The foregoing experiments with the cards will be found fufficient to explain moft others of a fimilar nature that have or may be made : the number of which is very great. To pcriurm thofe we have defribed
requires no great practice; the wo principal points Experiare, the making the pafs in a dexterous manner, and a ments with certain addrefs by which you induence a perforn to Sympathedraw the card you prefent. 'Tlofe that are performed $\underbrace{\text { tic Inks. }}$ by the long card are in gentral the moll eafy, but they arc confined to a pack of cards that is ready prepared; wheress thofe which depend on making the pals, may be performed with any pack that is offered.

## Sfet. III. Experiments wíh Sympothotic Iples. [See Sympatienic Inx.]

## Expertaents with Ceass I.

1. Make a book of 70 or 80 leaves; and in the Thie book--cover at the end of it let there be a cafe, which opens of fate. rest the binding, that it be not perceived.

At the top of each right hand page write any quettion you pleafe; and at the beginning of the book let there be a table of all thofe quellions, with the number of the page where each is contained. Then wrise with conmon ink, on feparate papers, each about half the fize of the pages in the book, the famequeitions that are in the book, and under each of them write, with the ink made of the impregnation of faturn, or the folution of bifmuth, the anfwer.

Soak a double paper in the vivifying liquor made of quicklime and orpiment, or the phlogiton of the liver of fulphur, and place it, juf before you make the experiment, in the eafe that is in the cover of the buak.

Then deliper fome of the papers on which the queflions are wrote to the company; and, after they have chofen fuch as they would have anfirered, they put then in thole leaves whese the fanc queflions are contained, and, thutting the hook for a few minutes, the fulphureous firit with which the paper in the cover of the book is imbibed, will penetrate the leaves, and make the anfwers viible, which will be of a brown colour, and more or lefs decp in proportion to the time the book has been clofed (D).
2. Make a box about four inches long, and three The matwide, as ABCD, and quite fhallow. Let it fhut withvellous por. hinges and falten with a hook; and let it have two frait, bottoms, the loweft of wood, that draws out by a fig. 17 . groove, an! the anpermoft of pafteboard. Between thefe two bottoms is to be placed a paper dipped in the vivifying liquor mantioned in the laft experiment. L,et there be alfo a board of the fame fize with the infide of the box, which being placed in it may profs a paper againl the pafteboard bottom.
Then take feveral picces of paper, of the fame fize with the infide of the box, and drav on them the figures of men and women, in different attitudes and employments, as walking, riding, reading, writing, Ec. Thefe figures mult be dramn with a new pen, or percil, clipped in the impreguation of faturn.
leing thus providel, and having privately placed the paper dipped in the vivifying liquor between the two botoms, you tell a perfon you will how him what an

$$
j \Lambda_{2} \text { ablea: }
$$

(D) If a weight be piaced upon the bonk, the effect will be the fooncr produced. Or you may put the iook in a box that will pref; it clofe down.

LEGEPDEMAIN.

Esscre- abfart frit id of his is doing at the prefent hour. Yua nant with then give him the paper adapted to the employment Symp ribe- you intend, and tell him to write his friend's name at tic Inl.s. the bottom, that you may not change the paper. Then placing that paper next the pafeboard bottom, and putting the piece of wood oner it, you thut the bos. After amuling him with difcourfe fur three or four minutes, you take out the paper, wi.en he will fee his friend in the employment you have afligned him.
The artificial hand.
lufion : but if a bit cifponte, aippel in the sivifying
 the writing on the paper, it will make it become gradually vifible, and in this cafe the trap door and dipped paper may be omitted (c).

## Deception with Class II.

4. Take feveral pieces of paper, of a fize that you The writ. can put in any book that will go into your pocket, and ing agzing write at the top of each of them a queltion, with common ink, and under it :rite the anfiver with the fo-
lution of gold or filver. Give any of thefe papers, clofely wrapt up, to a perfon, and tell him to place it againt the wall of his chamber, and keeping the door lucked be will next day find the anfwer wrote on it.

As the gold ink will fometimes give a yellow caft to the paper, you may previoully give a light tincture of that hind to the papers you ule for this purpofe.

## Deception with Class III.

5. On different papers draw the figures of feveral leaves or flowers with one of the colourlefs juices mentioned : then take one of the correfponding leaves or flowers, and laying it on an iron plate, over a chafingdiflo of hot coals, let it burn to athes. Put thefe athes into a fieve, in which there is fume very fine fteel filings, and lift them over the paper on which the flower is drawn, when they will adhere to the glutinous 1 i quor, and form an exsct reprefentation of the figure of the leaf or flower.

## Deceptions with Class IV.

6. Make a little triangular box, each fide of which The talifis to be about five inches, and let its infide be divid-man, fig. \% ed into three parts. The firlt part $A$, which makes the bottom of the bor, is to be covered by the fecond part $B$, in form of a cafe, and let the top $C$ exactly cover the part $B$, as is expreffed in the figure and the profles.
Upon the bottom of the box let there be a plate of copper, about one-twentieth of an inch thick, on which let there be a number of bieroglyphic characters contiguous to each other, and cut in different forts of metal. .
On the top of the cover place a knob O , that goes through it, and to which the copper triangle $Q$ is to be fixed occafionally, in fuch manner as it may go into the cafe B. There mult be a fpace of one quarter of an inch between the triangle $Q$ and the bottom of the cafe B; into which another plate of copper, of that thicknefs, may be placed.
The outtide of this talifman may be decorated with uncommon
(E) The paper dipped in the vivifying liquor is to be previoufly placed againit the opening in the table, and fupported by the trap door.
(F) This might be performed without an affiftant, by means of a trigger placed in the leg of the table, and communicating with the handles, which the operator might thruft down with his foot. Where expence is not regarded, there may be a complete figure of a man in wood, or plafter of Paris, feated by the table.
(c) You may alfo have a glafs ink-fland with fome of the vivifying liquor, into which the pen may be dipped, and it will then appear to write with common ink. The feetators thould not be permitted to come very near this machine, which may be applied to feveral oiher purpofes.

Exper:- uncommon firures or claracters, to give it the appear. mots with ance of er reat:r myftery.

On feveral pieces of paper, of the fame fize with the infide of the tal:fman, write different quel?ions in common ink, and write the anfwers in thofe diferent forts of fympathetic ink that appear when heated, obferving that each word of the anfuer is to be wrote in a different ink.

Having froparly heated the triangle, and placed it under the cover, you introduce the tahifman, and tell any one of the company to choofe one of the papers on which the quellions are wrote, and place it in the talifman, and he will immediately have an anfirer wrote on that paper, the words of which will be of different colours, according to the different metals of which the taliman is compoled. The paper being placed in the talifinan, and the cover placed over it, the heat of the tiangle will make the anfwer vifible in a few moments. This experiment may be repeated if the triangle be made fufficiently hot ; and two papers may be placed in the talilman at the fame time.

This deception, when well executed, occafions a furprife that cannot be conceived by a mere defcription.
7. Make a wooden pedeftal AB, about ten inches long, eight wide, and one deep: and at one end erect a box C , about ten inches high, eight broad, and two and a half deep.

The top of the pedental muft flide in a groove, on which infcribe a dial $M$, of fix inches diameter, and which is to be divided into nineteen equal parts, in twelve of which write the names of the months, and mark the refpective figns of the zodiac; and in the feven other divifions, which mult be next the end $B$, write the days of the week, and mark the figures of the planets. Next the inner circle NO, make an opening into the box, of about one-tenth of an inch. On the centre of the dial place an index that taris freely on its centie.

Within the pedeftal place a pulley $P$, about four inches diameter, which is to turn on an axis that is directly under the centre of the dial ; and on the upper part of that axis fis a bent index $R$, which comes out at the opening made by the inner circle ( n ), and pafles over thole feren divifions only on which are wrote the days of the reek.

Within the box $C$, let there be two rollers $S$ and $T$, as in the figure : let that of $S$ contain a fpring; and at the end of $T$ let there be a pulley $V$, of three quarters of an inch diameter, round which goes a ftring or thread that paffes under the fmall pulley $X$, and is faftened to that of P : fo that when the laft palley makes aboot one-third of a turn, that of V may make three or four turns.

There muft alfo be a fcroll of paper, about two feet long, and each end of which mult be pafted to one of the rollers. In tbe front of the box, between the two rollers, make an aperture D , about four inches long,
and one inch and a half wide: to this opening let there be a little flap or nider, by which it may be clofed at pleafurc.

Experi-
The apparatus being thus difpoled, place the indcx $1 R$ fuccelively acainf each of the divitions marked with one of the planets; and as the paper is gradually wound up the roller, mark, arainft that part which is at the aperture D , the name of one of the fullowing fibyls:

The Hellefpontian)
Cumean
Artemiian
fibyl.
Alouncan
Perfian
Libyan
On each of the feven cards write a different queftion, and diaw one of the feven planet. Nest, take a memorandum book that contains feven leaves, and on each of them write the name of one of the foregoing fibyls; in each of the leaves place foveral pieces of paper, and on each of them write, with the fympathetic ink that docs not appear till the paper is heated , different anfwers to the fame queltion.

Then give a perfon the feven cards on which the queftions are wrote, and tell him to choofe one of them privately, and conceal the reff, fo that it camot poffibly be known which of them he has chofen.

Next, tell him to place the incex that points to the month againf that in which he was born ( 1 ), and to place the index of the plancts againd that which is on the card he has chofen, and which is to prefide over the anfwer: you tell him to do this privately, that no one may fee him, and after that to cover the dial with his handkerchief. Then let him open the door that is before the apertore in the box, and tell you the name of the fibyl there vifible.

You then open the merorandur book, and taking out the papers that are in the leaf where the name of the fibyl juft mentioned is wrote, you defire him to choole any one of them he thinks proper. The talifman ufed in the laft experiment being properly hated, is then to be introduced, when you direct the perfon to pot the blank paper into it; and taking it out a few moments after, he will find the anfwer to his queftion.

To make this operation appear the more cxtraordinary, it will be proper to have a fmall prefs or cupboard, at the back of which there is a door that opens into an adjoining room, by which means an affiflant having prepared the talifman, may place it in the cupboard the moment before it is wanted. This contrivance will be ufeful on many other occafions.
8. Provide an urn of wood or metal about fix The mage. inches high, and two and a half diameter in the wideft ${ }^{\text {urn. }}$ part, and of fuch figure in other refpects as you think proper (fee fig. 9.) Let there be a cylinder of copper C, (fig. 10.) of about one eighth of an inch dia. meter,
(H) If the axis be made to pafs through the top of the pedeftal, this opening will not be neceflary.
(1) Thefe months and the index are of no other ufe than to give the experiment an air of greater my= fiery.
$\div 42$
Experi- meter, which is to fill a hole $A B$ inade in the urn. mer:s with The top of this cylinder is to be in the top of the urn, fo sicmathe- that it may be calily talien out. To this urn there muth ic Inks.
are wrote; and it may be further diverffifed by choof. Esperi ing three fuch words, as that the firit ean be changed mants w into the fecond, and the fecond into the third. You Sypupatl then tell him rhoodrew the firlt word, that it thall be tic Ins changed into that dramn by the fecond purton; and him you tell, that his word fiall be changed into that of the third perfon.
10. Write on feveral Alips of paper different que. The orac ftions, and fuch as may be anfwered by the name of lar letter fome perfon; for example, Who is the merrieft man in the company? Anfwer, Mr***. To whom will Mifs * * * be married? Anlwer, To MIr * * *. Thefe queftions are to be wrote in the fympathetic ink of this clafs, and expofed to the fire, and the anfirers wrote in the fame ink, and left invifible. The papers are to be folded in form of letters, and in fuch mamer that the part where the name is wrote fhall be directly under the feal, and the heat of the was will make it vifible. Then give the letter to the perfon who requires the anfwer, and he will find it plainly wrote.

A deception fimilar to this may be made with a number of blank cards, on each of which an ace of fpades is drawn with the invifible ink; then let a perfon choofe any one of them, and enclofe it in a lettercafe, prepared in fuch a manner that the figure of the ace flall be directly under the feal, and on opening the letter it will be immediately vifible.

## Diceptions with Class V.

11. Have a bos that is divided into three parts af-The incor ter the fame manner as the talifman in the $21 t$ experi-prehenfib ment, except that, inftead of being triangular, it mutt writing. be of a long fquare (fee fig. 14.) Divide its top B into two equal parts $D$ and $E$, as in fig. 13. and to the part D adjult a plate of copper L , about one quarter of an inch thick, and under both the plate $L$ and the opening E place a cloth. The upper part C mult have a button by which it may befixed on the cover B , fo as to appear of one piece with it.

At the bottom of the box place a piece of cloth, or other ftuff, ou which you may itamp certain myfterious characiers, and obferve that the bottom of the curer mut reft upon the cloth.

Then provide a 1 lip of paper GH (fig. 12.) of the Same fize with the bottom of the box; and at each end of it :rrite, with the green fympathetic ink, the name of a different card, and make fome private mark by which you can tell at which end each name is wrote (is).

Take a parcel of cards, and offer thofe two of them whofe names are wrote on the paper to the two perSons, that they may draw them. You tell the partics to keep their cards to themfelves, and you propole to make the names of thofe cards appear upon a nip of paper, which you put into the box. You then ans which name of the two eards thall appear firf. The copperplate being previculy hented and flaced in the cover,
(is) There arc fome forts of fympatbetic inks that require much more heat than others.
(i.) Thace letters fhould not be joined.
(ai) 'That there may be no fufpicion of the paper being prepared, you may cut it from a whole fheet, before the cropany, having previourly : rote the names.
L. EGERDEMAIN.

Expri- cover, you fut it ovel that end of the paper on which prts with is the hame required, and it will prefently appear. mpathe- Then taking the paper out and frowing the names wrote, you put it in again, turning the other end to the fide of the box where the plate is, and it will in like manner become vifible.

The firft name may be made to difappear at the fame time that the fecond appears, if the cloth at the end oppofite to that where the plate is be made damp.
12. Take a print that reprefents winter, and trace over the proper parts of the trees, plants, and ground, with the green fympathetic ink; obferving to make fome parts deeper than colers, according to their diftance. When thofe parts are dry, paint the other (.jojects with their natural colours. Then put the print in a frame with a glafs, and cover the back of it with a paper that is pafted over its border only.

When the priat is expofed to the heat of a moderate fire, or to the warm ravs of the fun, all the grafs and foliage will turn to a pleafing green; and if a yellow tint be given to fore parts of the print, before the Sympathetic ink be drawn over, this green will be of different flades; and the fcene that a minute before reprefented winter, will now be changed to fpring. When this print is placed in the cold, winter will again appear, and will again be dxiven away by the warm
 be repeated as ofien as you pleafe; remembering, however, as was before obferved, not to make the print at any time too hor, for then a faded autumn will for ever remain.

## Deceptions with Cl.iss VII.

13. Provide a number of artificial flowers, fuch as rofes, jonquils, pinks, or any other you find convenient. Thefe flowers mult be made of white thread or filk, and their leaves of parchment. Dip the rofes in the red fympathetic ink, the jonquils in the yellow, the pinks in the violet, and their leaves in a folution of falt or tartar. When they are all dry, form them into fmall bouquets, which will all appear white, and may be uied in this experiment, either the day they are dipped, or feveral days after.

You take one of thefe bouquets, and after flowing. the company that every part of it is white, you dip it in an infufion of any of the blue flowers mentioned under the article Colour-Making, $\mathrm{N}^{\circ}{ }^{1} 3$. and, drawing it prefently out, all the flowers and leaves will appear in their natural colours ( s ).
14. Write on a paper, with the violet liquor, as many letters or words as you pleafe; and ank any perfor whether he will have that writing turn to yellorr, green, or red.

Have a fonge with three fides that you can readily diftinguifh, ard dip each of its fides in one oi the three fympathetic inks. Draw the fide of the fponge that correfponds to the colour the , perfon has chofen, over
the writung once only; and it will directly change :o Micellathe colour required ( $n$ ). meank Per$\underbrace{\text { lermances }}$ $\underbrace{\text { lermances }}$
Sbet. IV. Mifeellaneous Performances.
15. A prifon having an cacn number of counters in one To tell odds hand, and an odd number in the other, to tell in whehich hand or cevns. the cadd or even number is.-Let the perfon multiply the number in his right hand by an odd number, and the number in his left hand by an even number, and tell you if the fum of the products added together be odd or even. If it be even, the even number is in the right hand; but if it be odd, the even number is in the left hand.

## Example.



Their fum 68


Their furm 57
16. To tell, by the dial of a watch, o: what hour any To teil at perfon intends to rife.-Let the perfon fet the hand of what hatir the dial to any hour he pleafes, and tell you what hour any perfon that is: and to the number of that hour you add, in intife. your mind, 12. Then tell him to count privately the number of that amount upon the dial, beginning with the nest hour to that on which he propofes to rife, and counting backwards, firft reckoning the number of the hour at which he has placed the hand. An example will make this plain.

Suppofe the hour at which he intends to iife be 8, and that he has placed the hand at 5. You add 12 to 5 , and tell him to count 17 on the dial, firft reckoning 5, the hour at which the index flands, and counting backwards from the hour at which he intends to rife; and the number 17 will necellarily cnd at 8 , which fhows that to be the hour he chofe.

That the hour at which the counting ends muft be that on which he propofed to rife, will be evident on a listle reflection; for if he had begun at that hour and counted 12 , he would necelfarily have come to it again ; and calling the number ${ }_{1}$, by adding 5 to it, only ferves
(a) The liquor fhould be pat in a fort of jar with a narrow neck, that it may not be feen by the company: and yout hould draw the flowers gcutly cut that the linuor may drop if thin, and they may have time to acquirc their colours.
(o) The fonge flould be well cleaned imaredietely aficr the experimen*.

Mifcella- ferves to difguife the matter, but can make no fort of neosis Fer-
formances
difference in the counting.
$\underbrace{\text { formances. }}$ 17. If the number it be multiplied by any one of The magi- the nine digits, the two figures of the product will alcal centurs: ways be fimilar. As follows :

| II | II | II | II | II | II | II | II | II |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| II | $\frac{22}{22}$ | $\frac{3}{3}$ | $\frac{4}{44}$ | $\frac{55}{65}$ | $\frac{7}{67}$ | $\frac{7}{88}$ | $\frac{99}{9}$ |  |

Place a parcel of counters on a table, and propofe to any one to add, alternately, a certain number of thofe counters, till they amount to soo, but never to add nore than 10 at a time. You tell him, moreover, that, if you ftake firft, he fhall never make the even century, but you will. In order to which, you mult firt fake s , and remembering the order of the above feries, 11, 22, 33, \&c. you conftantly add, to what he ftakes, as many as will make one mure than the numbers of that feries, that is, as will makic 12 , 23,34, \&c. till you come to 89 , after which the other party carnot make the century himfelf, nor prevent you from making it.

If the other party has no knowledge of numbers, you may flake any other number firft, under ten, provided you take care to fecure fome one of the laft terms as $56,67,78$, \&゙c.

This deception may be performed with other numbers; and in order to fucceed, you muft divide the number to be attained by a number that has one digit more than what you can flake each time, and the remainder will be the number you muft firt ftake. Obferve, that, to be fure of fuccefs, there muft be always a remaindcr. Suppofe, for example, the number to be attained is $5^{2}$, making ufe of a pack of cards inflead of counters, and that you are never to add more than 6 : then divide 52 by the next number above 6 , that is, by 7 , and the remainder, which is 3 , will be the number you mult flake firf ; and whatever the other fakes, you muf add as much to it as will make it equal to the number by which you divided, that is 7 . Therefore, if his firt ftake be 1 , you mult ftake $6, \&<c$. fo that your fecond fake will make the heap 10 , your third fake will make it 17 , and fo on, till you come to 45 , when, as he camnot flake more than 6 , you muft make the number 52 .

In this, as in the former cafe, if the other perfon has no knowledge of numbers, you may fake any number firft under 7 ; or you may let him ftake firf, only taking care to fecure either of the numbers 10 , ${ }^{3} 7,24,3^{1}$, \&ic. after which he cannot make 52 , if you conftantly add as many to his flake as will make it 7 .
Totcil

And 4 added to it, makes
Which multiplied by 5 , gives
To which 12 being added, it is
That multiplied by 10, makes - . 1020
From which deducting 320, the remainder is 700
And, by flriking off the two cyphers, it becomes
the original number
19. Three dice being thrown on a table, to tell the To rell t1 number of cach of them, and the order in which they fand. Let the perfon who has thrown the dice double the number of that next his left hand, and add 5 to that by 3 dice fum; then multiply the amount by 5 , and to the pro-without duct add the number of the middise die; then let the feeing whole be multiplied by 1o, and to that product add the them. number of the third dic. From the total let there be fubtracted 250 , and the figures of the number that remains will anfwer to the points of the three dice as they fland on the table.

Example. Suppofe the points of the three dice thrown on the table to be 4,6 , and 2 ,
Then the dauble of the firft die will be - 8
To which add
5
13
5
That fum multiplied by 5 will be

And multiply the fum by

To that product add the number of the third die
710
Form the total - $-\quad-\begin{aligned} & 712 \\ & \text { Subtract } \\ & \text { And the three remaining figures }\end{aligned}$
$\begin{aligned} & 462\end{aligned}$ will anfwer to the numbers on the dice, and fhow the order in which they Itand.
20. Some perfon in company having put a rins privately To tell os on one of his fingers; to name the perfon, the hand, the what finfinger, and the joint, on which it is placed.-Let a third \&er, a a rint, perfon double the number of the order in which he has been flands who hás the ring, and add 5 to that number ; privately then multiply that fum by 5 , and to the product add put.
10. Let him next add 1 to the laft number if the ring be on the right hand, and 2 if on the left, and multiply the whole by 10 : to this product he muft add the number of the finger (counting the thurib as the firlt finger), and multiply the whole again by 10. Let
him then add the number of the joint; and, latily, to the whole join 35.

He is then to tell you the amount of the whole, from which you are to fubtract 3535 , and the remainder will cunfift of four figures, the firit of which will exprefs the rank in which the perfon ftands, the fecond the hand (the number 1 fignifying the right hand, and 2 the left), the third number the finger, and the fourth the joint.

Examile. Suppofe the perfon whoftands the third in order las put the ring upon the fecond joint of the thumb of his left hand; then
18. A perfon privately fixing on any number, to tell him that number.-Atier the perfon has fixed on a number, bid him doublc it and add 4 to that fum, then multiply the whole by 5 ; to the product let him add 12, and multiply the amont by 10. From the fum of the whole let him deduct 320 , and tell you the remainder; from which, if you cut off the two laft figures, the number that remains will be that fixcd on.

> Example.

Let the number chofen be
Which: duutled is
$-$

I


## - Vi/g. K



$$
\text { - Mis. } 4 .
$$





- Jiju.is. C.tig. 8 .

-. 7 In 15

- Yisif

-和, is.

flatr Crict.

TYig. 1.

Plate CCXCI. EYing. $\sigma$.

Fig
7

-Ying. 20.
YYig.?1

- Yig. 23.
 3.1

-7ing. 10
Yiiq. 18



Micella- The double of the raak of the third perfon is neous Per- To which add formances. $\xrightarrow{\sim}$

Multiply the fum by<br>To which add<br>And the number of the left hand

## Which being multiplied by

To which add the number of the thumb
And multiply again by
Then add the number of the joint
And lafly the number

And multiply again by

Then add the number of the joint
And lafly the number

## From which deducting

## The remainder is

6710

Of which, as we have faid, the 3 denotes the third perfon, the 2 the left hand, the I the thumb, and the laf 2 the fecond joint.
21. Cover the outide of a fmall memorandum book with black paper, and in one of its infide covers make a flap to open fecretly, and obferve there mult be nothing over the flap but the black paper that covers the bonk.

Mix foot with black or brown foap, with which rub the fide of the black paper next the flap; then wipe it quite clean, fo that a white paper prefled againft it will not receive any mark.

Provide a black lead pencil that will not mark without prefling hard on the paper. Have likewife a fmall box, about the fize of the memorandum book, and that opens on both fides, but on one of them by a private method. Give a perfon the pencil, and a flip of thin paper, on which he is to write what he thinks proper: you prefent him the memorandum book at the fame time, that he may not write on the bare board. You tell him to keep what he writes to himfelf, and ditect him to burn it on an iron plate laid on a chafingdifh of coals, and give you the athes. You then go into another room to fetch your maggic box above deficribed, and take with you the memorandum book.

Having previoufly placed a paper under the flap in the cover of the book, when he preffes hard with the pencil, to write on t!e paper, every ftroke, by means of the fluff rubbed on the black paper, will appear on that under the flap. You therefore take it out, and put it into ore fide of the box.

You then return to the other room, and taking a nip of black paper, you put it into the other fide of the box, ftewing the aftes of the burnt paper over it. Then flaking the box for a few momens, and at the fame time turning it dextcroully over, you ojen the other fide, and thou the parfon the parer you firf put

Fow, XI. Pat II.

## E M A 1 N .

in, the writing on which he will readiiy acknowledge Mircellato be his.
22. 'T'ake two guineas and two flillings, and grind fermances. part of them away, on one lide only, fo that they may The trant. be but of half the common thicknefs; and obferve that phabl: they mun be quite thin at the edge: then rivet a gui-pieze. nea and a fhilling together. Lay one of thefe double pieces with the Chilling upwards, on the palm of your hand, at the bottom of your three firlt fingers; and lay the other picce, with the guinea upwards, in like manner, in the other hand. Let the cornpany take notice in which hand is the guinea, and in which the fhilling. Then as you fhut your hands, you naturally turn the pieces over; and when you open thens ayain, the ihilling and the guinea will appear to have changed their places.
23. Provide a round tin box, of the fize of a large The panefinuff box; and in this place eight other boxes, which trative will go eafily into cach other, and let the leatt of them be of a fize to hold a guinea. Each of thele boxes Should thut with a hinge : and to the leaft of them there muft be a fmall lock, that is faltened with a fpring, but cannot be opened without a key: and obferve that all thefe boxes mult thut fo freely, that they may be alt clofed at once. Place thefe boxes in each other, with their tops open, (fee fig. 12.) in the drawer of the table on which you make your experiments; or, if you pleafe, in your pocket, in fuch a manner that they cannot be difplaced.
Then afk a perfon to lend you a new guinea, and defire him to mark it, that it may not be changed. You take this piece in one hand, and in the other you have another of the fame appearance; and putting your hand in the drawer you flip the piece that is marked into the leaft box, and, thutting them all at once, take them out. Then thowing the piece you have in your hand, and which the company fuppofe to be the fame that was marked, you pretend to make it jafs through the box, and dexterouly convey it away.

You then prefent the box, for the 「pectators do not yet know there are more than one, to any perfon in company; who, when he opens it, finds another, and another, till he comes to the laft, but that he cannot open nithout the kcy (fee fig. 13.) which you then give him, and retiring to a diffant part of the room, you tell him to take out the guinea himfelf, and fee if it be that he marked.

This deception may be made more furprifing, by putting the key into the fruff box of one of the com= pany ; which you may do by alking lime for a pinch of his fiuff, and at the fame time conceal the key, which muff be very fmall, among the fnuf: and when the perfon who is to open the box alks for the key, you tell hins that one of the company has it in his fruuff box. This part of the deception may likewife be performed by means of a confederate.
24. ABCI), fig. 15. reprefents a fmall wooden box The three feven or eight inches long, two and a half broad, magic picand half an inch deep; the bottom of which, hy means Hinte of two crols pieces, is divided into three equal parts. cicic. EFGH 1 - prefents the lid, which is faltened to tie but- fig. 14, $\mathrm{I}_{\mathrm{j}}$. tom by a hinge, and has in front a finall plate chaped like a lock, and two fruall eyes for hoak which ferve to $f_{\text {flen }}$ it when it is flout. ILM are three frall flexible
fruings,

Mifcelia- fprings, flat, and about $\frac{3}{4}$ inch long. NOP are three neous Per- wooden tabees of the fame fize, upon which are markformances.
ed the figures 3,4 , and 5 . The tablets are of different
thicknefies, and the difference is fofmall as not to be yercsived by the eyc. The outide of the bow is covered with hagreen or morocco leather, and on the infide with filk taffety; thefe coverings being indifenfably neceffary to hide the three fmall fprings above mentioned. Fig. 14. Thows the two hinges $\mathbf{E}$ and F bent clofe to the top of the lid ABCD ; the piece of brafs G , $\mathrm{f}_{1}$ milar to a lock, being alfo curved to the lid. A fmall hrafs fud is rivetted upon the end of each of theie fprings inferted into the lid, and pafies through the curved part of each of the hinges and the lock ; fo that on the outfide they appear as the heads of fmall pins which faften them upon the lid. Thefe fmall ftuds will be elevated more or lefs according to the thickneffes of the tablets, that may be fhut up in each of the partilions in which they may be found placed; fo that the tablet N elerates them more than the tablet O , and the latter lefs than P ; thouph thefe elevations are but barely fenfible to the fight or touch, and that by a perfon aiecuflomed to look at or handle them. Thus it may be cafly known in whatever order the tablets are placed, however carefully flut; and confequently the numbers named as enclofed.

Give now the bos to any indifierent perfon, leave i.im at liberty to form with the tablets any number he pleafes, defring him to return the box well thut up; then taking the box, and determining by the touch, or rather by the eye, what crder the tablets are in, it will be very furpriling to hear you declare the number without feeing it.
N.B. It will fill be equally poffible to difcover the number, though the tablets ihould be returned with the bottom upwards, or even though one fhould be rithdrawn in order to defeat your defign ; particularly if care has been taken to make the fluds remain even with the plates when a number is omitted.
The nume-
25. 7io diffoucr any particular counter which has bcen fecretly placed withing a bax that turns upon it.-This table, which is made of wood, is reprefented by $A$, fig. 16. It is of an hexagomal thape, and about three or four inches ciametcr. For the fake of neatne?s in appearance, a proportionably fized pillar with a foot is fixed to it. Round a centre there turns a fmall round box $B$ of about $\frac{3}{4}$ inch diameter in the infide, the lid of which takes off at B. At the bottom of this box, near the circumference in the infide, is fised a brafs pin to fit a hole made in a flat ivory counter hown at $b$, fig. 17 . The pin and counter are reprefented in fig. 18. which is a flat riew of fig. s6. with the lid of the box B taken off. Oppofite to the fin $h$, in the fame figure, D reprefents a fine ojot defigned as a fecret mark on the outfde of the box, which ferres ghays as a guide to the number of the counter privately placed in the infide of the box, as is afterwards particularly explained. Upon one of the corners of the table is an irory mark C, for 16. and 18. Which ferves to placs the fpot a upon the counters in its proper pofition. See fig. 1\%. There are 12 ccunters fitted to the lox B, marked 10,20 , Eic. as far as 120 , on the midsle of each. On each of thefe counters is the hole $b$, 5.g. 17. and 18. which goss over the pin in the bottom of the box ; and on one fide of this bole a red or b!ack
$\mathrm{f}_{\text {pot }}$ is placed in the foilowing manner. When $\mathrm{N}^{\circ} 10$ is put into the box, the fpot munt be fo far to the lefi band of the hole, that when it is brought to the mark C, fig. 18. the hole $b$ will be oppofite to the fide marked 5. When $\mathrm{N}^{\circ} 20$ is put in, the fpot being brought to the mark C will carry the ho'e to the comer marked 2. When $N^{0} 30$ is put in, and the fot brought oppofite to C , the hole will be brought againtt the fide marked 3, as is hown in the figure, and lo on for the reft. Therefore, as oppofite to the brafs pin, or hole on the counter on the outfide of the bos $B$, there is a fecret mark D already mentioned, this muft ferse as an index to the number contained in the box, according as it is oppofite to a fide or comer of the tabic.

Give now the table with the box and the 12 counters to any perfon, and defire him to put one of the counters iecretly into the bos, keeping the relt to himfelf; and, after haring placed the hole over the pin in the box, 10 place particularly, by turning the bos round, the foot $a$ againft the mark $\dot{C}$ on the table. Let him then cover the box, give you the table, and keep the counters himlelf. Obierve then privately what fide or corner the fccret outfide mark I fiands againft, reckon the tens accordingly, and tell him the number.
26. To draw out of the well with a lucket any one The magic of four liquars which ha:e been previsufly mixed and put well. into it.- Provide two tin cylinders of feven or eight inches height ; the diameter of the largeft, reprefented by AB fig. 19. to be four inches, and that of the leaf, CD two inches. Place the fmall one within the larger, and connect them together by foldering to them fur tin partitions, making the equal fpaces $e, f, g, h$. Turn a piece of wood three inches thick, hollow withinfide, ar.d lined with tin, of which a fection is given, fig. 20. Into this the exterior cylinder fhould be clofely fitted at $a$ and $l$. Another circle of wood (of which a lection is given fig. 21.), hollowed at $a, b$, and $c$, is alfo to be procured, and which may cover exactly the fance tetween the two cylinders; and, lallly, let the whole be confirtufed in fuch a manner, that when thefe three feparate pieces are placed together, they may reprefent a well, as in fig. 22. The two brafs or :ooden pillars $A A$, with the axis and handle $C$, ferve to let down and diaw up a fmall glafs bucket $B$, an inch and a half in diameter. Make allo four tin referwoirs of the fame height with the cylinder, and fo fhaped as to fill the four fpaces $c, f, g, h$, (fig. 19.) which muft be well clofed at their extremities $B$ and $C$. On the top of each make a fmall hole about the tenth part of an inch diameter, and folder at the bafe C a fmall tube 1), the end of which Mould be bent towards the infide of the well when the refermoir is placed in it. Solder on the top of each refervoir a fmall fpring lever and prop ABDE, fig. 23. This fpring will ferve always to frefs the end of the lever $D$ down upon the hole at the top of the referwoir B; and in order to cover it more perfectly, a fmall piece of leather is to be glued on to the end of the lever D. Laftly, A fmall peg or find $C$ is"placed at the end of each of the levers, and which mult be clofe to the under part of the wooden circle which covers the refervoirs. To conceal thefe fuds, and at the fame time to be able to prefs upon then with the fingers, circular apertures, as fiom in fig. 21. mufl be made in the piece of wood, the top
covered

Miecta- covered with a piece of rellun, and the whole ncatly reous Per- painted with oil colour.
$\underbrace{\text { formances. If now you flunge one of thefe refervoirs perpendi- }}$ cularly into any liquor, in prefling on the fud, fo as to uncover the hole at the top, it will be filled with the liquor in proportion to the depth to which it is immerged; and as long as the lever continues to pre!'s upen the hole by means of the Spring, the liquor cannot run out for want of air, though it will do fo the moment the flud is prefied upon and the air admitted. If the referwoir is properly placed, then the liquor will How out of it into the glafs bucket when let down to a proper depth.

Fill now the four refervoirs with the four different liquors; putting them in their places, and covering them with the circular top. Take a quantity of the fame liquor, mix them well together, and pour the whole into the well; after which you may draw out any one which the company defires, by letting down the bucket, and preffing fecretly upon the Itud belonging to the refervoir which contains it, and which will thus difcharge the liquor it contains.
27. Provide a fmall tin mortar, that is double, as A (fig. 8.), whofe bottom B turns round on an axis, by means of a fpring which communicates with the piece C. There mult be a hollow fpace under the falfe boitom. To the under fide of the bottom faften, by a thread of fine filk, a flower, with its falk and leares.

Then take a flower that exactly refembles the other, and plucking it from the thalk, and all the leaves from each other, put them into the mortar, and pound them with a fraall pefte; after which you thow the mortar to the company, that they may fee the parts are all bruifed.

Then taking the mortar up in your bands, you hold it over the flame of a lamp or cancle, by whofe warmth the fiower is fuppofed to be rehored; and at the fame time prefling the piece at C , the bottom will turn round, the bruifed parts defcend into the fpace under the botton, and the whole flower will be at top: you then put your hand into the mortar, and eafily breaking the filk thread, which may be very fhort as well as fine, you take the flower out and prefent it to the company.

There is an experiment fimilar to this, in which a live bird is conctaled at the bottom of the mortar, and one that is dead is pounded in it : after which, by the motion of the bottom, the live bird is fet at liberty. But furely the pounding a bird in a mortar, though it be dead, muft produce, in perions of any delicacy, more difrutt than entertainment.
28. Procure a tin box ABCD (fig. I.) about eight inches high, four wide, and two deep, and let it be cexcr. fixed on the wooden fland E . On two of the infides let there be a groove FG; and in the front an opening I, three inches wide and one high.
At the back of the box let there be a little tin door, that opens outward, by which two wax candles AI may be put in. Let the top of the box have a cover of the
fame metnl, in which there are feveral holes, and which may be taken off at pleafire.

Provide a doublc glals OP (fig. 2.) confructed in the fame manner as that in the lait experiment. On onc of its fides you are to pafte a black paper, the length of which is to be divided into three parts, and the breadth into fifteen; in every two of the e fifteen divifions you cut out letters, which will make i: the whole three anfwers to three queftions that in?y be propofed. On the other lide of the glafs patle a very thin paper, and to the top faften a friall cord, by which they may be made to rife or defeend in the groove FG.

Then take a filip of pateboard RS (fig. 3.), one inch and a half wide and three inches long, which is to be divided into fifteen equal parts finilar to thofe of the paper OP, and cut out feaces, as in the figure, fo that this paper, liding horizontally before OP, will either cover or conceal the letters cut in that.
This palteboard is to lide between two brafs wires, and is to be faftened to one fide of the box, by aftring that communicates with a finall brafs fpring; and to the other fide, by a ffring faftened to the box by a fraill piece of wax, fo fituated that the flring may be eafily fet at liberty by the heat of the candles placed in the box.

Take a parcel of cards, and write on them different queftions, three of which are to correfpond with the anfwers on the glafs. Shuffe thele cards, and let a perfon draw any one of the three queltions. Then by raifing the glafs you bring the anfwer againit the hoic in the front of the box. You nest place the candles in the bos, the heat of which will melt the wax that holds the paper RS, which being then drawn by the fpring, the anfwcr will be vifible; and in proportion as the compofition between the glafies becomes diluted by the increafe of the heat, the letters will become more ftrongly illuminated.

The letters cut in the paper may be made to anfwer feveral different quettions, as has been explained in other experiments; and the whole parcel of cards may confilt of queftions that may be anfivered by one or other of the three divifions in the paper.
29. Make a thin box ABCD (fig. 4.), with a co-A flower ver M, that takes off. Let this box be fupported by pooduced the pedeftal FGHI, of the fame metal, and on which athes. there is a little door L. In the front of this bor is to be a glafs O .

In a groove, at a fmall diftance from O , place a double glafs of the fame fort with that in the laft experiment. Between the front and back glafles place a fmall upright tin tube fupported by the crofs piece R . Let there be alfo a fmall chafingdilh placed in the pedeflal FGHI. The box is to te open bchind. You privately place a flower ( $O$ ) in the tin tube $R$; and prefenting one that refembles it to any perion ( $R$ ), defire him to burn it on the coals in the chafingdith.
You then flew fome powder over the coals, which may be fuppofed to aid the athes in producing the flowcr; and then put the chafingdifi in the pedefal, ; B 2
under
(Q) This flower mun not be placed fo near as to make it in the leaft degree vifible.
(R) You may prefent feveral flowers, and let the perfon choofe any onc of them.

In this cafe, white he is bumning

Mircella- under the box. As the heat by degrees melts the comneons Per- pofition between the glaffes, the flower will gradually
formances. formances.
appear; but when the chafingdifh is taken away, and the power of $i$.e ahhes is fuppofed to be removed, the flower foon difappears.

For entertaining experiments, illufions, \&ic. of a phi- Mifeclian lofophical nature, fee the articles Acoustics, Catop neous Per trics, Chromatics, Dioftrics, Pyrotechnics, Sci- $\underbrace{\text { formances }}$ ence, Amuifements of.

## L E G

Leger Line, Leghorn.

Leger Line, in Mufic, one added to the flafi of
five lines, when the afcending or defcending notes run very high or low; there are fometimes many of thefe lines both above and below the ftaff, to the number of four or five.
L.EGFORN, anciently called Liburmus Portus, but by the modern Italians Livorno, a handfome town of Italy, in the duchy of Tufeany, and a free port, about 30 miles fouth-welt from Florence, in the territory of Pifa. The only defect of the harbour is its being too fhallow for large fhips. Cofmo 1. had this town in exchange for Sarzana, from the Genoefe; and it is the only fea port in the duchy. It was then but a mean unhealthy place; but is now very handfome, and well built, with broad, fraight, parallel ftreets. It is alfo well fortified; but wants good water, which mult be brought from Pifa, 14 miles diftant. It is about two miles in circuit, and the geveral form of it is fquare. Part of it has the convenience of canals; one of which is five miles in length, and, joining the Arno, merchandife and paffengers are thus conveyed to lifa. The port, confilling of two havens, one for the duke's galleys, and the other for merchant hhips, is furrounded with a double mole, above a mile and a half in length, and defended, together with the town, by a good citadel, and 12 forts. Roman Catholics, Jews, Greels, Armenians, Mahometans, and even the Englih factory, are indulged in the public exercife of their religion; but other Proteftants mult be fatisfied with the private. The trade carried on here is very great, and molt of it paffes through the hands of the Jews. Though only two piaAters, or fcudi, are paid for every bale, great or fmall, imported or exported, yet the duties on all provifions and commodities brought from the continent to the town are very heavy. The number of the inhabitants is faid to be about 45,000 ; and one third of thefe are Jews, who live in a particular quarter, but without any mark of diffinction, and have a fine fynagogue. They have engrofied the coral manufactury, have a confiderable trade, and polfefs the chief riches of the place. The garrion cuafilts of 2000 men. The walks on the ramparts are very agrceable. Trese is good anchorage in the road; but flins riding there are much expofed to the weather and the Barbary corfairs. The number of Englifh families in Leghorn, fome years ago, anmounted to about 36 ; and they were formerly much favoured by the goverment. The power of the inpuifition is limit-

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ed to ecclefiaftical matters and Roman Catholics. There Legio vir. are a great many Turkih flaves here, brought in by the duke's galleys, who are often fent out on a cruize againf the corfairs of Barbary. The lighthoufe Itands on a rock in the fea; near which is the lazaretto, where quarantine is performed. Another fource, from which the duke draws a great revenue, is the monopoly of brandy, tobacco, and falt ; but that, with the heavy duties, makes provifions dear. The Turks, who are not flaves, live in a particular quarter, near that of the Jews. The common proffitutes alfo have a particular place afligned them, out of which they muft not be feen, without leave from the commiflary. The number of the rowers in the galleys, whether Turkilh flaves, criminals, or volunteers, is about 2050 . In the area before the darfena or inner harbour, is a fine itatue of Duke Ferdinand, with four Turkih flaves, in bronze, chained to the pedeftal. The ducal palace is one of the fineft fructures in the town, and the ordinary refidence of the governor. Leghorn is the fee of a bilhop, and has a noble cathedral; but the other churches are not remarkable. Leghorn did not efcape thofe changes in which the French revolutionary war involved the towns and flates of Italy. E. Long. II. O. N. Lat. 43.30.

LeGio Vif. Gemina, in Ancient Geography, a town or flation of that legion in Afturias. Now Leon, capital of the province of that name in Spain. W. Long. 6. 5. S. Lat. 43.-Another Legio, a town of Galice ; from which Jerome determines the diftances of the places in Galilee; not a bare encampuent, though the name might originally be owing to that circumitance. It lay 15 miles to the weft of Nazareth, betrveen Mount Tabor and the Mediterranean. Now thought to be Legune.
I. EGION, in Roman antiquity, a body of foot which cenfifted of different numbers at different periods of time. The word comes from the Latin legere, to choofe; becaufe, when the legions were raifed, they made choice of fuch of their youth as were mott proper to bear arra.

In the time of Romulus the legion confifted of 3000 . foot and 300 horfe; though, after the reception of the Sabines, it was augmented to 4000 . In the war with Hamnibal, it was raifed to 5000 , atter this it • funk to 4000 or 4500 ; this was the number in the time of Polybius. The number of legions kept in pay together, differed according to times and oceafions. During the
contular
burning the flower, you fetch the box from another apartment, and at the fame time put in a correfponding flower, which will make the experinent fill morc furprifing.

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Legior，confular fate four legions were fitted up crery year， Legilator． and divided betwixt the two confuls；yet we meet with the number of 16 or 18 ，as the fituation of aftairs re－ quired．Auguftus maintained a ftanding army of 2 ；or 25 legions；but this number in after times is foldom found．The different legions borrowed their names from the order in which they were raifed；hence we read of legio prima，fecunda，fertia：but as there might be many prime，fecunda，tertia，\＆x．they were fur－ named from the emperors，as Augufa，Claudiana，Gal－ biana，Flavia，Ulpia，Trajana，Antoniana，\＆cc．or from the provinces which had been conquered by their means， as Parthica，Scythica，Gallica，Arabica，\＆zc．or from the deities under whole protection the commanders had particularly placed themfelves，as Minervia，Apollinaris， $\& c$ ．or from the region where they were quartered，as Cretenfis，Cyrenaica，Britannica，\＆c．or from particu－ lar accidenis，as adjutrix，martia，fulmi－vatrix，rapax， viarix．

Each legion was divided into 10 cohorts，each cohort into 10 companies，and each company into two centu－ ries．The chief commander of the legion was called legaius，i．c．lieutenant．

The flandards borne by the legions were various；at firt，the ftandard was a wolf，in honour of Romulus＇s nurfe；afterwards a hog，which animal was ufually facrificed at the conclution of a treaty，to indicate that war is undertaken with，a view to peace；fometines a minotaur，to remind the general of his duty of fecrecy， of which the labyrinth was an emblem，and confe－ quently the minotaur；a horfe was alfo borne，alfo a boar；and Marius，we are told，was the firlt who chan． ged all thefe for the eagle．

LEGISLATOR，a lawgiver，or perfon who efta－ blifhes the polity and laws of a ftate．Such was Mo－ fes，among the Jews；Lycurgus，among the Lacede－ monians，\＆c．See Mosaic Laiw．

The firlt laws amongh the Athenians feem to have been thofe of＇Thefeus；for what we can find earlier than this period is involved in fable．Afer ilhefeus came Draco the archon，whofe laws were faid，for their leverity，to have been written with blood：by his laws every ofience was punithed with death；fo that ftealing an apple，and betrayinst their country，were treated as equal crimes．Thefe laws were afterwards repealed by Solon，except fuch as related to murder ： By way of dillinction，Draco＇s laws were called ©estas， and Solon＇s Nopos．The laws of Solon were in a great mealure fufpended during the ufurpation of Piniftratas； but，after the expulfion of his family，were revived with fome additions by Clifthenes．After this，the form of of governmênt was again changed，firft by the four hun－ dred，and afterwards by the thirty tyrants；but thefe ftorms being over，the ancient laws were again reftored in the archonfhip of Euclides，and others cttablifhed at the in＇tances of Diocles，Ariftophon，and，laft of all， of Demetrius the Phalcrian．＇This is a Chort Netch of thee liftory of the Athenian legiflation，before that ftate lubmitted to the Roman yoke．But many laws were enacted by the fuffrages of the people on parti－ cular exigencies；the decrees of the fenate continued to have the force of laws no longer than a year．If a new law was to be propofed to the affembly，it was ne－ ceffary to urite it upon a white tablet，and lix it up fome days before the meeting，left their judgement
thould be caught by furprife．＇I he laws were carcfully Lezieima－ revifed every year；and if any of them，from a change of circumftances，were found unfuitable or prejudicial， vocusy，becaule the fuffrages were given by holding up of hands．The firll laws amongit the Grecians were unwritten and compoled in verfe，that the common pcople might with more eafe commit them to memory． Solon penned his laws upon wooden tablets，called A $\xi 0 . \Sigma_{5}$ ；and fome authors with great probahility affert， that they were written in the manner called Bagseof 1000 ， from left to right，and from right again to lett，in the fame manner as oxen walk the furrows in plowing， thus，

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It was againft the law for any perfon to erafe a decree ； and certain perfons，called $\left.\Gamma_{\rho} x \mu u x\right\} s c s$ ，were appointed to prevent any corruption；whofe bulinefs it was allo to tranfribe the old and enter the new ones．

At Rome the people were in a great meafure their own legillators；though Solon mas be faid，in fome fenfe，to have been their legillator，as the decemviri， who were created for the making of laws，borrowed ： great number from thofe of Solon．Sce Lex．

With us the legillative power is lodged in the king， lords，and commons allembled in parliament．See Law and Parifament．

LEGIIIMAIION，an act whereby illegitimate children are rendered legitimate．See Bisrard．

LEGICIME，in Scois Law，that thare of the more－ able cifects belonging to a hubband and wife，which up－ on the hufband＇s death falls ta the children．See L．iv Index．

LEGUMIEN，or POD，in Borany ；a fpecies of feed－ veffel which has two valves or external openings en－ clofing a nuinber of leeds that are faftened along one future only．In this laft circumfance the feed－veliel in queftion differs from that termed by botanifts fliqua， in which the enclofed feeds are fallened alternately to both the futures or joinings of the pod．

The leed－veffel of all the pea bloom or butterfly－ flaped flowers，the diadelphia of Linneeus，is of this pod kind．Such，for intance，is the feed－vellel of the pea，vetch，lupine，and broom．

LEGUMINOUS，an appellation given to all plants whofe fruit is a legumen．

LEtBNITZ，Godfrey William de，an eminent mathematician and philofopher，was born at Lecipfic in Saxony in 1646 ．At the age of 15 years，he applied himelf to mathematics at Leipfic and Jena；and in 1663 ，maintained a thefis de Principiis Individuationis． The year following he was admitted maller of arts． He read with great attention the Greek philofophers； and endeavoured to reconcilc Plato with Ariltotle，as he afterwards did Ariftotle with Des Cartes．But the ftudy of the law was his principal vicw；in which fa－ culty he was admitred bachelor in 1665 ．The year following he would have taken the degree of doctor； but was refufed it on pretence that he was too young， though in reality becaufe he had raifed himfelf leveral enemies by rejecting the principles of Aritotle and the fchoolmen．Upon this he went to Altoff，where he maintained a thefs de Cofilus Perglexis，wit！！uch ap－

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Teibask, plave, that he had the degree of doctor conferred on Lesmitzian im. He might have fetlled to great alvantage at $\underbrace{\text { Phitophs. Paris: but as it would bave been necefiary to have }}$ embraced the Roman Catholic religion, be refured all offers. In 1673, he went to England; where he became acquainied with $\$ 1 \times$ O'denburg, fecretary of the Royal Society, and Mr John Collins, fellow of t'rat fociecy. In i $6-6$, he retamed to England, and thence went into Holland, in order to proceed to Hanove:, where he propofed to fettle. Upon his arrival there, he applied himfelf to enrich the duke's library with the belt books of all kinds. The duke dying in 1679 , his fucceffor Erneft Auguftus, then bithop of Olnaburgh, flowed our author the fane favour as his predecelfor had done, and ordered him to write the hiftory of the houle of Brunfwick. He undertook it, and travelled over Germany and Jialy in order to collect materials. The electur of Brandenburgh, afterwards king of Pruflia, founded an academy at Berlin by his advice; and he was appointed perpetual prefident, though his affairs would not permit hinn to refide conitantly at Berlin. He projected an acadeny of the fame kind at Drefden; and this defign would have been executed, if it had not been prevented by the confulions in Poland. He was engaged likewife in a fcheme for an univerfal language. His writings had long before made him famous over all Europe. Befide the office of privy counfellor of jufrice, which the elector of Hanover had given him, the emperor appointed him in 1711 aulic counfellor; and the czar made him privy counfellor of jullice, with a penfion of 1000 ducats. He undertook at the fame time the eitabliftument of an academy of fcience at Vienna; but the plague prevented the execution of it. However, the emperor, as a mark of his favonr, fetled a penfion on him of 2000 florias, and promifed him another of 4000 if he would come and refide at Viema. He would have complied with this offer, but he was prevented by death in 1716. His memory was fo ftrong, that in order to fix any thing in it, he had no more to do but to write it once; and he could even in his old age repeat Virgil exactly. He profeffed the Lutheran religion, but never went to fermon; and upon his deathbed, his coachman, who was his favourite fervant, defiring him to fend for a minifter, he refuled, laying, he had no need of one. Mr Locke and Mr Molyneux plainly feem to think that he was not fo great a man as he had the reputation of being. Foreigners afcribed to him the homour of an invention, of which, it is faid, he received the firft hints from Sir Ifaac Newton's letters, who had difcovered the method of Aluxions in 1664 and 1665 . But it would be tedions to give a detail of the difpute concerning the right to that invention. See Fluxions.

LEIBNITZIAN Philosorhy, or the philofophy of Seibnitz, is a fyltem of philofophy formed and publifhed by its author in the laft century, partly in emendation of the Cartefian, and partly in oppofition to the Newtonian. 'The bafis of Mr Leibnitz's plilofophy was that of Des Cartes; for he retained the Cartefian fubtile matter, with the univerfal plenitude and vortices; and reprefented the univerfe as a machine that thould proceed for ever by the laws of mechanifm, in the moit perfect ftate, by an abfolute inviolable necer. lity, though in fome things he differs from Des Car-
tes. After Sir Ifaac Newton's philorophy was pulb, Le: lithed in 1697, he printed an eflisy on the celeftid mo- Philofor tions, Act. Erud. 1689, where he admits of the circulation of the ether with Des Cartes, and of gravity rith Sir Ifaac Newton; though he has not reconciled thefe principles, nor thown how gravity arofe from the impale of this ether, nor how to accuant for the planetary revolutions, and the laws of the planetary mo. tions in their refpective orbits. That which he calls the harmonical circulation, is the angular velocity of any une planet, which decieafes from the perihelium to the aphelium in the fame proportion as its difance from the fun increafes; but this law does not apply to the motions of the difierent planets compared together : becaufe the velocities of the planets, at their niena diftances, decreafe in the fame proportion as the fquare roots of the numbers expreling thoie difances. Befides, his fyftem is defective, as it does not, reconcile the circulation of the ether with the free mations of the comes in all directions, or with the ublipuity of the planes of the planetary orbits; nor refolve other objections to which the hypothefis of the plenum an vortices is liable. Soon after the period juit mentioned, the difpute commenced concerning the invenion of the method of fluxions, which led Mr Leibnitz to take a very decided part in oppofition to the plilofophy of Sir llaac Newton. From the wildom and gooduels of the Deity, and his principle of a lulficient reafon, he concluded that the univerfe was a perfect work, or the beft that could poffibly have been made; and that other things, which were incommodious and evil, were permitted as necelfary confequences of what was belt: the material fyftem, confidered as a perfe it machine, can never fall into diforder, or require to be let right; and to fuppofe that God interpofes in it, is to leffen the flill of the Author, and the perfection of his work. He exprefsly charges an impious tendency on the philofophy of Sir Ifaac Newton, becaufe he afletts, that the fabric of the univerfe and courfe of nature could not continue for ever in its prefent ftate, but would require, in procefs of time, to be re-eftablifhed or renewed by the hand of its Former. The perfection of the univerfe, by reafon of which it is capable of continuing for ever by mechanical laws in its prefent ftate, led Mr Leibnitz to diftinguifl between the quantity of motion and the force of bodies; and, whilft he owns, in oppofition to Des Cartes, that the former varies, to maintain that the quantity of force is for ever the fame in the univerfe, and to meafure the forces of bodies by the fquares of their velocities.

This fyftem allo requires the utter exclufion of atoms, or of any perfectly hard and inflexible bodies. The advocates of it allege, that according to the law of continuity, as they call a law of nature invented for the fake of the theory, all changes in nature are produced by infenfible and infinitely fmall degrees; fo that no body can, in any cafe, pals from motion to refl, or from reft to motion, without paffing through all poffible intermediate degrees of motion: whence they conclude, that atoms or perfectly hard bodies are imporfible: becaufe if tiro of them thould meet with equal motions, in contrary directinns, they would neceflarily flop at once, in violation of the law of continuity.

Mr Leibnitz propofes two principles as the foundation of all our knowledge ; the sirf, that it is impo!-

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cibnitzian fible for a thing to be and not to be at the fame time, Philoocphy. fon why it tould be for this principle, according to him, we make a tranfition from abitracted truths to natural philofoplay. Hence he concludes, that the mind is naturally determined, in its volitions and elections, by the greatelt apparent gond, and that it is impolible to make a choice between things perfesly like, which he calls indifcernibles; from whence he infers, that two things perfectly like could not have been produced even by the Deity : and be rejects a vacuum, partly becaule the parts of it mult be fuppofed perfeally like to each other. For the fame rea!o: he alfo rejects atoms, and all fimilar particles of matter, to each of which, though divilible in infinitum, he afcribes a monad (Act. Lipfiæ 1698 , p. 435.) or astive kind of principle, endued, as he fays, with perception and appetite. 'Tlse effence of fubltance he places in action or activity, or, as he expreffes it, in fomething that is between acting and the faculty of acting. He aflirms abfolute reft to be impoffible; and holds motion, or a fort of ni/us, to be effential to all material fubftances. Each monad he defcribes as reprefentative of the whole univerfe from its point of. fight; and after all, in one of lis letters he tell, ws, that matter is not a fubitance, but a fubfianitatum, or phenomené bien fonde. He frequently urges the comparifon between the effects of oppofite moives on the mind, and of weights placed in the fales of a balance, or of powers acting upon the fame body with contrary directions. His leazned antagonilt Dr Clarke denies that there is a finilitude between a balance mored by weights, and a mind acting upon the view of certain motives; becaufe the one is entirely paffive, and the other not only is acted upon, but acts alfo. The nind, he owns, is purely paffive in receiring the impreffion of the motive, which is ouly a perception, and is not to be coafounded with the power of acting after, or in confequence of, that perception. The difference between a man and a machinc does not confif only in fenfation and intelligence, but in this power of acting alfo. The balance, for want of this power, cannot move at all when the weights are equal; but a free agrent, he fays, when there appear two perfeally alike reafonable ways of acting, has fill within itfelf a power of choofing; and it may have ftrong and very good reafons not to forbear.
'The tranlator of Mofheim's Ecclefiaftical Hiftory obferves, that the progrefs of Arminianifm has declined in Germany and feveral parts of Switzerland, in confequence of the influence of the Leibnitzian and Wolfan philofophy. Leibnitz and Wolf, by attacking that liberty of indifference, which is fuppoled to imIlly the power of acting not only without, but againft, notives, fruck, he fays, at the very foundation of the Arminian fyllem. He adds, that the greatelt pollible ferfection of the univerfe, confidered as the ulimate end of creatiug goodnefs, removes from the doctrine of predefination thofe arbitrary procedures and narsow views with which the Calvinits are fuppofed to lave loaded it, and gives it a nerr, a more pleafing, and a more philofoplaical afpect. As the Leibnitzians laid down this great end as the fupreme object of God's unifcrfal dominion, and the hope to which all his dif-
penfations are directed; fo they concluded, that if this Leicefter. end was propofed, it muft be accompliflied. Hence the doctrine of necelfity, to fulfil the purpofes of a predeftination founded in wifdom and gooduefs; a ne. ceflity, phyfical and michanical, in the motions of material and immimate things, but a necellity moral and fpiritual in the voluntary determinations of intelligent beings, in confequence of propellent motives, which produce their effects with certainty, though thefe of. fects be contingent, and by no means the offspring of an abfolute and eftentially immutable fataity. Thefe principles, fays the lame writer, are evidently applicable to the main doctrines of Calsinifm; by them predellination is confirmed, though modified with refpect to its reafons and its end ; by them irrefittible grace (irrefiltible in a moral fenfe) is maintained upon the hypothefis of propellent motives and a moral neceflity: the perfererance of the faints is alfo explicable upon the fame fyftem, by a feries of moral caufes producing a feries of moral effects.

LEICESTER, the capital of a county of the fame name in England, upon the river Leire, now called Sorre. From its fituation on the Fofle way, and the many coins and antiquitics difcorered here, it feems probable that it was a place of fome note in the time of the Romans. In the time of the Saxons it was a bifhop's fee, and afterwards fo repaired and fortified by Edellida, that it became, according to Matthew Paris, a moll wealthy place, baving 32 parilh churches; but in Heury the Second's reign it was in a manner quite ruined, for joining in rebellion againft bim with Robert earl of Leicelter. In the reign of Edward III. however, it began to recover by the farour of his forn Henry Plantagenet, duke and earl of Lancafter, who founded and endowed a collegiate church and hofpital here. It is a borough and corporation, governed by a mayor, recorder, fleward, bailiff, 24 aldermen, 48 common council men, a folicitor, a torn clerk, and two chamberlains. It had its firft charter from King Tohn. The freemen are cxempt from paying toll in all the fairs and markets of England. It has three hofpitals; that mentioned above, built by Hemry Plantagenet ouke of Lancalter, and capable of fupporting 100 aged people decently; another, erected and e:1dowed in the reign of Henry VIlI. for 12 poor lazars; and another for fix poor widows. The cafte was a prodigious large building, where the duke of Lancafter kept his court. The hall and kitchen nlill remain entire, of which the former is very fpacious and lofty; and in the tower over one of the gateways is kept the magazine for the county militia. There was a famous monaftery here, anciently called from its fituation in the meadows, St Nary de Pratis or Prea. In thefe meadows is now the courfe for the horit race. It is faid that Richard III. who was killed at the battie of Bofworth, lies interred in St Margaret's church. The chief bufinefs of Leicefler is the flocking tratc, which hath produced in general to the amount of 60,ccol. a.year. In a parliament lield here in the seign of Henry V. the firft law for the burning of heretics was rade, levelled againt the followers of Wickliffe, who was rector of Lutterworth in this county, and where his pulpit is faid dill to remain. The town fuffered greatly in the civil wars, by two fieges upon the back of one another. It has givers

## I. E I

İ3ecter- the title of earl to feveral noble families. The prefent Nhire earl was creatcd in 1784 , and is the marquis of TownLeighlin. thend's fon. Its market on Saturday is one of the greatelt in England for provifions, efpecially for corn and cattle; and it has four fairs in the year.

Leicestershire, an inland county of England, in form almoft circular. It has Nottinghamfhire and Derbyfhire to the north; Rutlandhire and Lincolnfhore on the eaft ; Warwick thire on the wefl, from which it is parted by the Roman military way called Waling fireet; and by Northamptonflire on the fouth ; and is about 170 miles in circumference. As it lies at a great diftance from the fea, and is free from bogs and marhes, the air is fweet and wholefome. It is a champaign country in general, and abundantly ferite in corn and grafs, being watered by feveral rivers, as the Soure, or Sare, which pafles through the middle of it, and abounds in excellent falmon and other fith; the Wreke, Trent, Eye, Senfe, Auker, and Aven. Thefe rivers being moftly navigable, greatly facilitate the trade of the county. In fome parts there is a great fcarcity of fuel, both wood and coal; but in the more hilly parts there is plenty of both, logether with great flocks of theep. Befides wheat, laarley, oats, and peafe, it produces the bell beans in England. They grow fo tall and luxuriant in fome places, particularly about Barton in the Beans, that they look, towards the harven time, like a foref; and the inkabitants eat them not only when they are green as in other places, but all the year round; for which reafon their neighbours nickname them bean bellies. They have plenty of very good wool, of which they not only make great quantities of flockings, but fend a great quantity unmanufactured into other parts of England. They make great profit of their corn and pulfe; and likewife breed great numbers of eoach and dray horfes, moft of the gentlemen being graziers; and it is not uncommon to rent grafs farms from 5001 . to 2000). a-year. It is in the midland circuit, and diocefe of Lincoln: and fends four members to parliament, two for Leicefler, and two for the county.

LEIGH, Sir Edward, a very learned Englimman, was born at Shawel in Leicefterhire, and educated at Magdalen hall, Oxford. He was a member of the long parliament, and one of the members of the houfe of commons who were appointed to fit in the affembly of divines. He was afterwards colonel of a regiment for the parliament; but in 1648 was numbered among the Prefbyterians who were turned out, and in December he was imprifoned. From this period to the Reftoration he employed himfelf in writing a confiderable number of learned and valuable books, which flowed profound learning, a knowledge of the languages, and much critical fagacity: and of which a lith is given by Anthony Wood. Sir Edward died at his houfe called Ruftiall Hall, in Staffordhire, June 2. 1671; and was buricd in the chanicel of Ruthatl church.
I.EIGHLIN, a town of Ireland, fituated in the county of Carlow, and province of Leinfter ; about 43 miles from Dublin, near the river Rarrow. It is a borough, and formerly returned two members to parliament; patronage in the bilhop of the diocefe, this teing a hinhopric united to Ferns. At the eall end of the church of Old Leighlin is a famous well covered with
great afh trees, and dedicated to St Lafarian. This Leightom place was formerly a city, though now a very mean village, and the cathedral has been kept in good repair. It was a fole bihopric, founded in 632 , and joined to Ferns in 1600 . It is reported, that Gurmundus a Da nith prince was buried in this church. The laft bilhop of Leighlin before its mion with Ferns, was the right reverend Robert Grave, who coming by fea to be inftalled, fuffered hhipwreck in the harbour of Dublin, and perilhed in the waves. This cathedral was burnt to the ground, it is faid, by lightning; and rebuilt, A. D. 1232 , then dedicated to St Lafarian or Lazarinus, before mentioned; fince the fees were joined, it is made ufe of as a parifh church. Leighlin bridge is fituated about two miles from this village; it was deflroyed by the Irifli in 1577. Here are the remains of a caftle and of an old abbey. This is a polt town, and has fairs in May, September, and October.

LEIGHTON, ROBERT, archbifhop of Glafgow. During Cromwell's ufurpation, he was minither of a church near Edinburgb, and diftinguilhed himfelf by his charity, and his averfion to religious and political difputes. The miniflers were then called over yearly in the fynod, and were commonly aiked, Whether they had preached to the times? "For God's fake (anfwered Leighton, when all my brethren preach to the times, fuffer me to preach about eternity." His moderation, however, giving offence, he retired to a life of privacy. But foon after, he was called by the unanimous voice of the magiftrates, to prefide over the college of Edinburgh; where, during ten years, he difplayed all the talents of a prudent, wife, and learned governor. Soon after the Refforation, when the ill-judged affair of introducing Epifcopacy into Scotland was refolved on, Leighton was confecrated bilhop of Dunblane, and immediately gave an inftance of his moderation: for when Sharpe and the other bifhops intended to enter Edinburgh in a pompous manner, Leighton remonflrated againgt it ; but finding that what he faid had no weight, he left them, and went to Edinburgh alone. Leighton, in his own diocefe, fet fuch a remarkable example of moderation, that he was revered even by the mofl rigid of the oppofite party. He went about, preaching without any appearance of pomp; gave all he had to the poor; and removed none of the minifters, however exceptionable he might think their political principles. But finding that none of the other bifhops would be induced to join, as he thought, properly in the work, he went to the king, and refigned his bifhopric, telling him he would not have a hand in fuch opprefive meafures. Soon after, the king and council, partly induced by this good billop's remonftances, and partly by their own obfersations, refolved to carry on the caufe of Epifcopacy in Scotland on a different plan; and with this view, Leighton was perfuaded to accept of the archbithopric of Glafgow, on which he made one effort morc ; but finding it not in his power to flem the violence of the times, he refigned his archbilhopric, and retired into Suffex, where he devoted himfelf to ants of picty. He died in the year 1634 . He was of a moff amiable difpofition, tlict in his life, polite, cheerful, engaging in his manners, and profoundly learned. He left many fermons and uffeful tracts, wli.ich are greatly enleemed.

LLINSTER, the eaftern prowince of Ireland, bound-

## L E I [753 $] \quad \mathrm{L}$ E I

ed by Ulfer on the north; St George's, or the Inih channel, on the eafl and fouth; and by the provinces of Connaught and Muniler on the weft. The capital city of this province and of the kingdom is Dublin. It contains 12 counties, viz. Carlow, Dublin, Kildare, Kilkenny, King's county, Longford, Louth, Meath, Queen's county, Well Meath, Wexford, and Wicklow. It is the mof level and beft cultivated province in the kingdom; containing $2,6 \not \psi_{2}, 958$ 1rifh plantation acres, 858 parihhes, 99 baronies, and 53 boroughs; it is about 124 miles long and 74 broad, and extends from $51^{\circ} 45^{\prime}$ to $55^{\circ} 45^{\prime}$ north latitude. Dermond king of Leeinfter marrying his daughter Eva to Strongbow earl of Pembroke, on his deceafe made him his univerfal heir; whereby the earl inherited the province of Leinfter, and was afterwards enfeoffed of it by Henry II. He died in iryó, and left an only daughter ITabel, efpoufed to William Marfhal ear! of Pembroke; by her he had five fons, who fucceeded to his great effates in Leinfter. This province gives title of duke to the ancient and noble family of Fitzgerald. In the early ages, this diftiict was almoft one continued foreft, and was principally the feat of the Kinfelaghs.

LEIPSIC, a large, ftrong, and populous town of Mifnia in Germany, with a cafle, and a famous univerfity. It is neat, and regularly built, and the ftreets are lighted in the night; it carries on a great trade, and has a right to ftop and fell the merchandifes defigned to pals through it, and the country for 75 miles round has the fame privilege. There are three great fairs every year; at the beginning of the year, Ealter and Michaelmas, which latt 15 days each. There are fix handfome colleges belonging to the univerlity, befides the private colleges. The townhoufe makes an indiferent appearance, but the exchange is a fine flructure. The town was taken by the king of Pruffia in the late war, but given up by the peace in 1763. It is feated in a plain between the rivers Saale and Muld, near the conflucnce of the Playffe, the Elfter, and the Barde. E. Long. 12. 55. N. Lat. 51.19.

LEITH, (anciently called Inverleith), the port of Edinburgh, is feated on the banks of the Forth, about two miles from the capital. It is built on both fides of the harbour; by which it is divided into two parts, called North and South Leith. The communication between thefe was by a ftone bridge of three arches founded by Robert Ballentyne abbot of Holyroodboufe in 1493 , but fome time ago pulled down. The harbour is formed by the conflux of the rivulet called the Water of Leith with the frith of Forth. The depth of water, at neap tides, is about nine feet; but in high fpring tides, it is about 16 feet. In the beginning of the 18 th century, the town council of Edinburgh improved the harbour at an enormous expence, by extending a flone pier a confiderable way into the fea. In 1777, they ereGled an edditional fone quay towards its well fide. Upwards of 100 hips could then lie conveniently in this port: but it can now admit of a much greater number, in conreņuence of having lately undergone great improvements. In order to enlarge it, the old bridge was pulled down, and an elegant drawbridge ereeted a little to the eaflward of the former fite. It is accommodated with wet and dry docks, and other conveniences for thip-building, which is there carried on to
fome extent, as vefiels come to Leith to bc repaired from all parts of Scotland. A new bafon was completed and opened in 1805, which affords a fife and convenient llation for trading veliels. The road of Leeith affords good anchorage for thips of the greateit
































































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#### Abstract

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Von. XI Part

## L E I

## L E I

Leith. lace alfo appears to have formerly food here, fitwated at the north.eat boundaries of the former town, on the foot where the prefent weigh hoale Itands. It was deftroyed by the Englifh in the time of Henry S'III. The remains of this building, called the king's zoork, with a garden, and a piece of wafte land that furrounded it, was crected into a barony by James Vi. and beftowed upon Bernard Lindlay of Lochill, groom of the chamber to that prince. He is faid to have fully repaired, and appropriated it to the recreations of the court; but it foon fell from its dignity, and became fubfervient to much more ignoble purpofec. The temnis court was converted into a weigh-houfe; and the freet which bounds it Aill bears the name of the founder, from whence it is called Bernard's nook.

As Leith lay within the parifh of Reitalris, the church of Rettalrig was of confequence the place of worlhip for the inhabitants of Leith; but in 1650 the Afiembly ordered that church to be pulled down as a monument of idolatry, fo that Leith warted a parih church for upwards of 50 years. During that period they reforted for worlhip to a large and beautiful chapel already built, and dedicated to St Mary, which is now called South Leith Church; and in 1609 this chapel was by authority of parliament declared to be the parifh church of the dilfrict: fo that Rentalsig is now in the parilh of South Leith, as the latter was formerly in that of Rettalrig. In $177^{2}$, a clapel of eafe was erected by the inhabitants, as the parith church was infufficient to contain the number of hearers. There are alfo an Epilcopal and feveral diffenting congregations in Leith. North Leith is a parith by ilfelf, and the church which is propofed (ISO7) to be rebuint, is fituated at what was the north end of the old bridge.

Though a very great trade is carried o: between feith and many foreign ports, yet the articles of cxport and import fluctuate fo much, that it would be ufelefs to enter into any details cither as to fpecies or quantity. In general, the imports from France, Spain, and Portugal, are wines, brandy, and fruits; from the Weit Indies and America, rice, indigo, rum, fusar, and logwood. But the principal foreign trade of Leith is by the cattern feas, for the navigation of which it is mofl happily fituated. 'To Germany, Holland, and the Baltic, it exports lead, glafs ware, linen and woollen llufis, and a variety of other goods, and from thence it imports inmenfe quantities of timber, oak bark, hides, linen rags, pearl alhes, flax, hemp, tar, and many other articies. The Baltic trade has long been carried on to a great extent, owing no doubt to the vaft increafe of new buildings in Edinburgh and its environs. 'The coafting trade is a principal branch for the Thipping at Leith, including thofe which belong to other ;orts on the Forth, which are faid to make about onefourth of the tonage of the Leith vefficls. The fips employed in the Ioradon trade are in general of a large ti\%e, elegantls con!lructed, well manned, and furnithif with excellent accommodations for paffengers. The largeft hips in this port, however, are thofe employed in the Greenland filhery.

The fhipping ai I.eith renders the demand for ropes, fiil cloth, and cordage, very confiderable. Different companies who carry on thefe manufactures, befides private perfons who deat lefs considerably. The firft
of thofe companies was eftablithed in the beginnirg of Leith. the 1 Sth century. This has proved a profferous and lucrative concern.

In the middle of the $17^{\text {th }}$ century, a manufactory of green glafs was eftablificd at the citadel of Leith. Chonin bottles were fold at $4^{\text {s. }}$. 6 J . per dozen, and other bottles in proportion. Soon afterwards this article was manufactured alfo in North Lecith; and in 1707, chopin buttles were fold at 2 c . (xd. per dozen, and fo on proportionably. That houle being burnt down in 1746, a new houfe was built the following year on South Leith fands, and an additional one in 1764. Two companies are now ( 1807 ) engaged in the glafs manufacture; the one for common bottles, and the other for window glafs and cryftal ware of all forts.

Manufactures of foft foap and candles were erected by St Clair of Roflin and fome merchants; the former in 1750 , and the latter in 1770 : a manut cture of hard foap was alfo eftablihed in 1770. Befides thefe, there are a confiderable manufacture for making cards with which wool is combed, a great carpet factory, and feveral iron forges. There was alfo a fugar houfe: but it has been given up, as has likewife Mr St Clair's foap work.

There is befide a branch of the Britilh Linen Com. pany. a banking houfe in Leith, called the Leith Banking Company, who ifice notes and carry on bulinefs to a contiderable extent. An elegant building for the accommodation of this company is now ( 1807 ) erceting.

The inhahitants of Leith were divided into four claffes; and thefe erected into corporations by the gucen dowager, Mary of Lorraine. Thele were marmers, maltmen, trades, and tratickers. The firtt of thele confifted of flipmatters and failors; the fecond, of malt-makers and brewers; the third, of coopers, bakers, fmiths, wrights, \&c.; and the fourth, of merchants and hopkeepers. Of theie corporations the mariners are the moft confiderable. They obtained from Mary of Lorraine a gift, afterwards ratified by William and Mary, of one penny duty on the ton of goods in the harbour of Leith, for the fupport of their poor. This du:y, which not many years ago did not amount to $40 l$. a-year, now riles from 701 . to 1201. as trade flourifhes. For the fame purpofe the hipmaflers alfo pay 6 d . a pound out of their own wages annually; and the like fum they give upon the rages of their failors. From thefe and other donations, this corporation is enabled to pay from 602l. to 7001 . ayear to their poor. Oppofite to South Leith church there is a large houfe belonging to them, called the Trinity Horpital, becaule originally confecrated to the Holy 'lrinity. In this houfe fome of their poor ufed fornerly to be maintained, but now they are all outpenfioners. Befides other apartments, this hofpital contains a large handfome hall for the meetings of the corporation. Adjoining to the fchool houfe there is another hofpital, called King James's Hofpital; and bears upon its front the cypher and arms of that prince. Here fome poer women belonging to the other corporations are maintained.

As the town of Leith was very ill fupplied with water, and the flreets were neither properly cleaned nor lightod, an aft for remedying thefc defects was paffed in the year 1771, appointing certain perfuns from a-

## L E I

Leitrim mong the magilltates of Edinburgin, lords of Ceffion, Leland. iahabitants of Edinburgh aird Leith, and menbers of the corporations of Leith, commiffoners of pulice; em-
powering them to put this act in execution ; and, for that purpale, to levy a fum not excecding 6 d . in the pound upon the valued rent of Leith. "llie great change which has fince taken place on the flreets of Leith thows the good effect of this aft, and that it has both been jucicioufty prepared, and attentively executed. Leith however has never bsen well fupplied with water; that broaght in pipes from Lochend in the eaftern part of the parith is not of a good quality, for it is not derived from frings.

Leith was computed to contain, in 1821 , abore thirteen thoufand inhabitants. The government of the town is relled in a magiftrate fent from Edinburgh, having admiral's power; and in two rending bailies elected by the town council.

LEITRIM, a county of Ireland, fituated in the province of Connaught, is bounded on the north by the bay of Donnegal and part of Fermanagh, on the fouth and weit by Sligo and Rofcommon, and on the eaft by Fermanagh and Cavan. It is a fruitful county ; and, though mountainous, produces great herds of black cattle; but has few places of note. It contains 206,8,30 Irilh plantation acres, 21 parilhes, 5 baronies, and 2 boroughs, and fornerly fent fix members to parlianent; and is about 42 miles long; and 17 broad.

Leitrint, the fhire town of the county of that name, is pleafantly fituated on the banks of the river Shanncr, ahout 80 miles from Dublin; and appears to have been formerly a place of fome note. St Mac Iiegus, fon of Cernac, was bithop here: and his feftival is obferved on the 8:h of February.

LEIXIIP, a poft and fair town of Ireland pleafant!y fisuated in the county of kildare and province of Leinller, about 8 miles from Dublin. Near it are the ruins of the church and calle of Confy. The callle of Leivlip is beautifully feated on the banks of the river Liffey; it is a fine edifice with large and pleafant gardens, at one fide of which is a fine waterfall called the Salinon leap, there being plenty of that fpecies of fifh hereabouts. A mile from this is Caftletown, the magnificent feat of Mrr Conolly.

LELAND, Jons, a celebrated Englifh antiquary, was born in London about the year 1557. Having loft his parents when a child, he had the good fortune to find a friend and patron in one Mr ' Thomas Miles, who placed him in St Paul's fchool, of which the grammarian Lilye was matter. From that fchool he was fent to Chrift's college, Cambridge ; whence, after fome years refidence, be removed to All Souls, Oxford. From Oxford he went to Paris, chichly with a defign to ftudy the Greck language, which ai that lime was but little underfood in this kingdom. On his return to England he took orders, and was foon appointed chaplain to King Henry VIII. who alfo gave him the reClorv of Poppeling, in the marties of Calais, apmonted him his librarian, and in 1533 granted to him, by commifion under the great feal, the office of king's antiquary; an office never bome by any other perfon before or lince. By this commifion be was empowered to fearch for ancient writings in all the libraries of collegec, abbeys. priories, \&c. in his majerly's dominions. We are told by his
lait biographer, that he renounced Popery foon apter Inanal. his return to England; but he quotes no anthority. Be this as it may, in 1536 , he ohtained a difpenfa. tion to keep a curate at Puppeling, and fet out on his journey in fearch of antiquisies. In this cmplorment be fpent fix years, during which time he vilited every part of England where monuments of antiquity were to be expected. After his return, in the ycar 1542 , he was prefented by the king to the rich rectory of Haleley in Oxfordihire; and in the following year he gave him a prebend of King's college, now Chril's church, in Oxford, befides that of Eaft and Well Knoxle, in the cathedral of Salibury. Bring thus amply provided for, he retired to a houfe of his own in the parill of St Michael le Qucrne in London, whese he 「pent fix years more in digenting the matcrials which he had collested. King Henry V'lll. died in 1547 ; and in a Chort time after, poor Leland loft his fenfes. He was at firll feized with a deep melancholy, which was fucceeded by a total deprivation of his reafon. In this dreadful ftate lie continued till the beginning of the year 55.52 , when he was happily releafed by death. He was buried in the church of St Michael le Ouerne, which was deftroyed by the fire in 5666 . Mr Leland is remembered as a man of gieat learning, an univerfal linguit, an excellent Latin poet, and a moft indefatigable and kilful antiquary. On his death, King Edward VI. gave all his papers to Sir John Checke, his tutor and Latin fecretary of late. The king dying, and Sir Joln being obliged to leave the kingdom, he gave four folio volumes of Leland's collections to Humphrey Purefoy. Efq; which in 1612, were ty his fon given to William Burton, author of the hifury of Leicefterfire. This gentleman, alfo became poffeffed of the Itinerary in 8 vols folio, which, in 1632 , he depofited in the Bodleian library. Many other of Leland's manulcripts, after the death of Sir John Checke, fell into the hands of Lord Paget, Sir William Cecil, and others, which at latl fortunately came into the poffelfion of Sir John Cotton. 'Thefe manufcripts were of great ufe to all our fubfequent antiquarians, particularly Camden, Sir William Dugdale, Stowe, Lambard, Dr Batielcy, Ant. WYoul, \&c. His Itinerary throughout moll parts of Engiatid and Wales, was publihed by Mr Hearne, 9 vols. 8 vo, in 1710-11; as was alfo his Collectanea de rebus Brilannicis, 6 vols 8ro, in 1715.

Leland, Fohn, a difinguifhed writer in defence of Chrillianity, was born at Wigan in Jancalhire in 1601 , of eminently pious and virtuous parents. They took the earlieft care to feafon his mind with proper inliructions; but, in his fixth year, the fmall pox deprived him of his underlianding and memory, and expunged all his former ideas. He continued in this deplorable fate near a twelvemonth, when his facultic feemed to fpring up anew; and though be did not retain the leaft traces of any impreffions made on him before the diftemper, yet he now difcovered a quick apprehention and ftrong memory. In a few years after, his patents fettled in Dublin, which fituation gave him an e:sfy introduction to learning and the fcirnces. When he was properly qualified by years and ftudy, he was call. ed to be paftor to a congregation of P.oteftant difimters in that city. He was an able and acceptable preacher, but his labours were not cunfined to the pul-

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le: els pit. The mun attacks made on Chittianity, and by
to confider the fubjeat with the cesact care, and the mof faithful esumination. Upon the moif deliberate
inguiry, the truch and divine original, as well as the excellence ard importance of Chriftianity, appeasing to him with great luttre, he publithed anfwers to feveral authors who fucceffively appeared in that caufe. He was indeed a mater in this controverfy; and his hiltory of it, ftyled "A View of the Deiffical Writers that have appeared in England in the laft and prefent Century, \&.c. is very greatly and defervedly effeemed. In the decline of life he pubilihed another laborious work, entitled, "The Advantase and Necefiity of the Chrillian Revelation, thorm from the State of Religion in the ancient Heathen World, efpecially with tetpect to the Knowledge and Worthip of the One true Cod; a Rule of rooral Duty, and a State of fucure Rewards and Punilhments: to which is prefixed, a loug and preliminary Difcourle on Natural and Rereaied Religion," 2 vols 4 to. "This noble and extenfive fubjeet, the feveral parts of which have been flightly and orcalionally handled by other writers, Leland has treated at large with the greatelt care, accuracy, and candour. And, in his, "View of the Deiftical Writers," his conl aud difpaffionate manucr of treating their arguments, and lis folid confutation of them, have contributed more to deprefs the caufe of atheifm and infidelity, than the angry zeal of warm difputants. But not only his learning and abilities, but alfo his amiable temper, great modefty, and exemplary life, recommended his memory to general efteem and affection. He died in 1766.

LELEGEIS, the ancient name of Miletus, from the Leleges, the firlt inhabitants of it.
L.ELEGES, anciently a people of Afia, of Greek original: the name denoting "a collection of people:" they firf occupied the illands; then palling over to the continent, they fetted partly in Myfia on the Sinus Adramyttenus, and partly in that part of Ionia next Ca-ria.- There were Leleges alfo of Laconia. Thefe went to the Trojan war with Altes their king. Achilles plundered their country, and obliged them to retire to the neighbourhood of Halicarnaflus, where they fixed their habitation.- The inhabitants of Laconia and of Megara alfo bore this name for fome time, from Lelex one of their kings.

LELEX, an Egyptian who came with a colony to Megara, where he reigned about 200 years before the Trojan war. His fuhjeets were called from him Lele-ger.-Alfo the name of a Greek who was the firlt king of Laconia in Peloponnefus. His fubjects were alfo called Lcleges, and the country where he reigned Lelegia.

LEI.Y, Sir Peter, an eminent painter, was born in Weffphalia in the year 1617. He was placed as a difciple with Peter Grebber at Haerlem; and in 1641 was induced, by the encouragement Charles I. gave to the fine arts, to come to England. He became flatepainter to Charles II. who knighted him; and being as complete a gentleman as a painter, that king took pleafure in converfing with him. He practifed portrait painting, and fucceeded fo well that he was preferted before all his contemporaries. Hence he became perpetually involved in bufinefs; fo that he was thereby prevented
from going into Italy to finifh the courfe of his fudies, which in bis younger days he was very defirous of: however, he made himfelf amends, by getting the beft dravings, prints, and paintings, of the moft celebrated Italian matters. Among thele were the better part of the Arundel Collection, which he had from that fain'ly, many whereof wcre fold after his death at prodigious rates, bearing upon them his ufual mark of P. I.-The advantage he reaped from this collection, the beft chofen of any one of his time, appears from that admirable fyle which he acquired by daily converling with the works of thofe great matlers. In his correct draught and beautiful colouring, but more efpecially in the graceful airs of his heads, and the pleafing variety of his poftures, together with the gentle and loofe management of the draperies, he excelled moft of his predeceflors. Yet the critics remark, that he preferved in almolt all his female faces a drowfy fweetnefs of the eyes peculiar to himfelf; for which he is reckoned a mannerift. The hands of his portraits are remarkably fine and elegantly turned; and he frequently added jandfcapes in the back grounds of his pialures, in a fyle peculiar to himfelf, and better fuited to his fubject than moft men could do. He excelled likewife in crayon painting. He was familiar with, and much : $3-$ fpected by, perfons of the greateft eminence in the kingdom. He became enamoured of a beautiful Englith lady, to whom he was fome time after married; and he purchafed an effate at Kew in the county of Surrey, to which he often retired in the latter part of his life. He died of an apoplexy in 168כ at London; and was buried at Covent Garden church, where there is a marble monument erected to bis memory, with his buft, carved by Mr Gibbons, and a Latin epitaph, written, as is faid, by Mr Flatman.

IEMBERG, a town of Poland, capital of Red Rufia, feated in the palatinate of Lemburg, on the river Pelten. It is pretty well fortified, and defended by two citadels, one of which is feated on an eminence without the town. The fquare, the churches, and the public buildings, are magnificent; and it is a large and rich trading place. It has a Roman Catholic archbifhop, and an Armenian as well as a Ruflian bifhop; but the Proteftants are not tolerated. The city was reduced to the laf extremity by the rebel Colfacs and Tartars, and was forced to redeem itfelf with a large fum of money. In 1672, it was befieged in vain by the Turks; but in 1704, was taken by form by Char. XII. of Sweden. E. Long. 24. 46. N. Lat. 49. 51.

LEMERY, Nicholas, a celebrated chemift, born at Rouen in Normandy in 1645. After having made the tour of France, he, in 1672, commenced an acquaintance with M. Martyn apothecary to Monfieur the Prince; and performed feveral courfes of chemiltry in the laboratory of this chemilt at the Hotel de Conde; which brought him to the knowledge and eftcem of the prince. He provided himfelf at length with a la. boratory of his own, and might have been made a doctor of phyfic : but he chofe to continue an apothecary, from his attachment to chemifry, in which he opened public lectures; and his conlluence of fcholars was fo great as fcarcely to allow him room to perform his operations. The true principles of chemiffry in his time were but ill underfood; Lemery was the firdt who abolifhed the fenfelefs jargon of barbarous terms, seduced

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Leming reduced the fcience to clear and fimple ideas, and promiled nothing that he did not perform. In 1681 , he was diflurbed on account of his religion; and came to England, where he was well received by Charles 11.: but affairs not pronifing him the fame tranguillity, he returped to France, and fought for fhelter undcr a doctor's degree; but the revocation of the edict of Nantz drove lim into the Romilh communion to avoid perecution. He then became affociate chemitt and penfionary in the Royal Academy of Sciences, and died in 1715. He wrote, A courfe of chemiftry; An univerfal pharmacopecia; An univerfal treatife of drugs; and, a treatife on antimony.
leming, in Zoology. See Mus, Mamalia Index.

LEMMA, (of $\lambda$ runaraw, "I aflume,") in Mathemasics, denotes a previous propointion, laid down in order to clear the way for fome following demonftration; and prefixed either to theorems, in order to render their demonftation lefs perplexed and intricate; or to problems, to rake thei: refolution more ealy and fhort. Thus, to prove a pyramid one third of a prifm, or parallelopiped, of the fame bafe and height with it, the demonfration whereof in the ordinary way is dificult and troubleforne; this lemma may be premifed, which is proved in the rules of progreffion, that the furo of the feries of the fquares, in numbers in arithnetical progreffion, beginning from 0 , and going on 1, 4, 9 , $16,25,36, \& c$. is always lubtriple of the fum of as many terms, each equal to the greateft ; or is always one-third of the greateft term multiplied by the numiber of terms. Thus, to find the inflection of a curve line, this lemma is firft premifed, that a tangent may be drawn to the given curve in a given point.

So in phyfics, to the demonftration of moft propofitions, fuch lemmata as thefe are neceffary inft to be allowed: that there is no penetration of dimenfions; that all matter is divifible : and the like. As alfo in the theory of medicine, that where the blood circulates, there is life, \&:c.

LEMNA, DUCK-meat, a genus of plants belong. ing to the monocia clafs; and in the natural method ranking under the $5 t^{\text {th }}$ order, Mifcellanere. See Botayy Index.

Lemnian earth, Terra Lemnia, a medicinal, affringent fort of earth, of a fatty confiftence and reddifh colour; ufed in the fame cafes as bole. It has its name from the ifland of Lemnos, whence it is chiefly brought. Rlany form it into round cakes, and imprefs a feal upon it; whence it is alfo called terra fo. gillata. A fort is faid to be imported from Senegal, which is not properly an earth, though fo called, but compofed of the dried pulp of the fruit of the B.obab.

LEMINIUS, Lexvines, a famous plyyfician, born at Ziric Zee in Zealand, in 3.505 . He practifed phyfic with applaufe; and after his wife's death being made prieft, bècame canon of Ziric Zee, where he died in 1560. He left feveral woiks, the principal of which is entitled De occultic nature miraculis.

LEMNOS, in Ancient Gengraply, a noble ifland in the Æygean fea, near 'Thrace, called alfo Dipolis, from its confifting of two towns. The firt inhabitants wese the Pclafgi, or rather the Thracians, who were mur-
dered by their wives. After them came the cliiden of the Lemnian widows by the Argonauts, whofe defeendants were at latt expelled by the Pelafgi, aloov: 1100 years before the Chriftian era. L.emnos is abriat 112 miles in circumference according to Pliny ; wiso fays, that it is often Ghadowed by Mount Athos, shough at the diftance of 87 milec. It has been called Hififpyle from Queen Hipfipyle. It is famous fcr a certain kind of earth or chalk called term Leminia, or terra figillata, from the feal or impreflion which it can bear, and which is ufed for confolidating wounds. As the inluabitants were blackfmiths, the poets hive taken occafion to fix the forges of Vulcan in that illand, and to confecrate the whole country to his divinity. Lemnos is alfo celebrated for a labyrinth, which, according to fome traditions, furpafled thofe of Crete and E.gypt. Some remains of it were fill vifible in the age of Pliny. The ifland of Lemnos was reduced under the power of Athens by Miltiades.

Lemon. See Citrus, Botany Index.
Lemon Ifand, one of the Skelig illancs fo called; fituated off the coaft of the county of Kerry, in the province of Munfter in Ireland. It is rather a round rock, always above water, and therefore no way dangerous to flips. An incredible number of gannets and other birds breed here; and it is remarkable that the gannet neflles nowhere on the fouthern coaft of Ireland but on this rock, though many of them are feen on all parts of our coaft on the wing. There is another rock on the northera coaft of 1reland remarkable for the fame circumitance.

LEMONADE, a liquor prepared of water, fugar, and lemon or citron juice, which is very cooling and grateful.

LEMOVICES, a people of Aquitania, fituated between the Biruriges Cubi to the north, the Arverni to the eaft, the Cadurci to the fouth, and the Pictones to the weft. Now the Limofin and La Marche.

LEMUR, the Matcauco, a genus of quadrupeds belonging to the order of primates. Sce Mammallas Index.

LEMURES, in antiquity, fpirits or hobgoblins; reflefs ghofts of departed perfons, who return to terrify and torment the living.

Thefe are the fame with larvo, which the ancients imagined to wander round the world, to frighten gooid people, and plague the bad. For which reafon at Rome shey had lemuria or feafts inflituted to appcafe the manes of the defunct. See Lares.

Apuleius explaiis the ancient notion of manes thus: the fouls of men teleafed from the bands of the body, and freed from performing their bodily functions, bccome a kind of demons or genii, formetly called lemures. Of thefe lcmures, thofe that were kind to their familics were called lares familiares; but thofe who for their crimes, were condemned to wander continually, without meeting with any place of reft, and terrified good men, and hut the bad, are vulgarly called larve.

An ancient commentator on Hurace mentions, that the Romans wrote lemures for remures; which lank word was formed from Remus, who was killed by his brother Romulus, and who returned to the earth to :ormert him.

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Lemuria Put Ancteius obferves, that in the aicient Latia tongue lemuref fignifies the foul of a man lepserated from the body by death.

LEMURIA, or LFMURAISA, a feaft flemmized at Rome on the gth of May, to paciry the manes of the dead, or in honour of the lemures. It was inalitutellby Remulus, to appeale the ghost of hi: murdered brother Remus, which he thoukit was continually purfuing him to revenge the horrid crime. -The name lemuria is therefore fuppofed so be a corruption of Remuia, i. e. the fealt of Remus. Sacrifices continued for three nights, the temples were fhut un, and marriages were prohibited during the folemnity. A sariety of whimtical ceremonies were performed, magical words made ule of, and the ghofts defired to withdraw, without endeavouring to hurt or affright their friends above ground. The chief formalities were ablution, putting black beans into their mouths, and beating kettles and pans, to make the goblins keep their diftance.

LENA, a great river of Siberia in Alia, which takes its rife in N. Lat. 50. 30. and E. Long. 124. 30. from Ferro. After travering a large thact of country, it divides itfelf into five branches about Lat. $73^{\circ}$. Three of thefe rum weflward, and two eaftward, by which it difcharges itfelf into the Icy fea. Its three weflern mouths lie in $143^{\circ}$ E. Long. from Ferro, but the eaftern ones extend to 153 . The current is everywhere llow, and its bed entirely free from rocks. The bottom is fandy, and the banks are in fome places rocky and mountainous. Sixteen large rivers fall into the Lena during its courfe to the northern ocean.

LEN EAA, a feftival kept by the Greeks in honour of Bacchus, at which there was much feafting and Bacclianalian jollity, accompanied with poetical contentions, and the cxhibition of tragedies. The poor goat was generally facrificed on the occafion, and treated with various marks of cruelty and contempt, as bcing naturally foad of browfing on the vine fhoots.

LENCICIA, a frong town of Poland, and capital of a palatinate of the fame name, with a fort feated on a rock. The nobility of the province hold their diet here. It ftands in a morafs on the banks of the river Bfura, in E. Long. 19. 25. N. Lat. 52.12.

LENDING-Houses. That it flould have once been conceived unlawful to exact intereft for the loan of money will not appear furprifing, when it is confidered, that at an early period the occupations by which a man could fupport his family were neither fo numerous nor productive as in modern times. As money, therefore, was at that time fought to remove immediate neceffity, thofe who advanced it were influenced by benevolence and friendfhip. But on the extenfion of trade, arts, and manufactures, money lent produced much more than what was adequate to the borrower's daily fupport, and therefore the lender might reafonably expect from him fome remuneration. To the lending of money upon intereft, according to the earlief accounts we have, fucceeded the practice of eftablilhing funds for the relief of the reedy. on condition that they could demft any thing equal in value to double the fum borro see, for which they were to pay no interet.
"ut as, on the one hand, the idea of exacting intere for the luan of money was octious to the members of the Fopith church in gene:al, and as, on the other,
it anpenred highly proper and even neceflary, to pay interet for money to be employed is comnerce, the pontifis thenifelves at length allowed the lending-houfe to take a moderate inte:al ; and in order not to alarm the prejudices of thofe towlom the mefure was umovious, it was concealed monder the name of teing paid pio indemnitate, -the expreffion made ufe of is the papal bull.

It appears that lending hourec, which gave money on the receipt of pledges, $2 t$ a certain interett, are by 110 means of recent date; for many of the houfes of this nature, in Italy at leaft, were eftablifhed in the 15 th century, by Marcus Bononienfis, Michael à Carcano, Cherubinus Spoletan:s, Antonius Vercelienfs, Berrardinus Tomitano, and others.

The lending houfe at Perugia, eftablithed by Parnabas Interamnenfis, was infected by Berıardinus in 1485 , who augmented its capital, and in the fame vear ellablithed one at Affifi, which was conermed by Pope Innocent, and vilited and improved by its founder in the year $14^{87}$. He likewife eftabtilhed one at Mantua after formidable oppofition being made to the reafure, procuring for it the fanction of the pape, as Wradding informs Lis. The fame perfon alfo founded lendinghotiés at Florence, Parma, Chieti, and Piacenza, in doing which he was fometimes well received. while at others he frequently met with the moft formidable oppofition. A houfe of this kird was eftablified at Padua in the year $1+91$, and another at Ravenna, which were approved of and confirmed by Pope Alexander VI.

Long after the abuve period, lending-houfes were eftablifhed at Rome and Naples, that of the former city having taken place in 1539, and that of the latter probably in the following year. A lending-houfe was eflablified at Nuremberg in Germany about 1618, the inhabitants having obtained from Italy the regulations of different houfes, in order to felect the befl. In France, England, and the Netherlands, lending-houles were firth known under the denomination of Lomlards. Similar inflitutions were formed at Pruffels in 1619; at Antwerp in 1620 , and at Ghent in 1622.

Although fuch houfes mult be allowed to be of confiderable utility under certain circumftances, efpecially when the interefl is not allowed to be exorbitant, yet they were always odious in France ; but one was eftablihned at Paris in 1626, in the reign of Louis XIII. which the managers next year were obliged to abandon. The mont de piete at that city, which has fometimes had in poffeftion 40 cafks full of gold watches that were pledged, was eftablifhed by royal authority in the year 1777, as we learn from the Tableau de Paris, publihed at Hamburg in 1781.-Beckman's Hif. of Iñentions.

LENFANT, Janiss, a learned French writer, was born in 1661 . After ftudying at Saumur, he went to Heidelberg, where he received impolition of hands for the miniftry in 1684. He difcharged the functions of this character with great reputation there, as chaplain of the electrefs dowager Palatine, and paftor in ordinary to the French church. The defcent of the French into the Palatinate obliged our author to depart from Heidelberg in 1687 . He went to Berlin, where the elect or Frederic, afterwards king of Pruffit, appointed him one of the miniters. There he continued 39 years, dillinguilhing himfelf by his writings.

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He was preacher to the queen of Prufin, Charlatta Sophia; and aiter her death, to the late king of Prufliz. In 1;07 he took a journey to England and Holland, where he had the honour to preach before Quen Anve; and might have fetuled in London, with the tiile of chaplain to her majofly. In 1712 he went to Helmiladt, in 1715 to Leeiplic, and in 1725 to Breflau, to fearch for rare books and MSS. It is not certain whether it was he that firf formed the dcfign of the Biblioikeque Germanique, which began in 1730 ; or whether it was fuggefted to him by one of the fociety of learned men, which took the name of Anomymous, and who ordinaily met at his houre. He died in 1728 . His principal works are, 1. The Hiftory of the Council of Conftance, 2 vols 4 to. 2. A Hiftory of the Council of Pifa, 2 vols 4 to. 3. The Ners Teflament, tranllated from the Greek into the French, with Notes by Beaulobre and Lenfant, a vols 4to. 4. The Hillory of Pope Joan, from Spanheim's Latin Difiertation. ₹. Several pieces in the Bibliotheque Chiofie, La Repullic hits Letites, La Bibliotheque Gerntanique, \&.c.

Leng Let', Nicholas du Fresnoy, l'’abbe', born at Beauvais in France, 1674 , was a mull fertile and ufful French author on a variety of fubjects, hiftorica?, geographical, political, and philofophical. The following deferve particular notice: 1. A TIethod of Studying Hiftory, with a Catalogue of the Principal Hiftorians of every Age and Country, publifhed in 1713 ; a work whicb effablihed his reputation as an liftorical writer: it was trantlated into mof of the modern languages, particularly our own, with confidesable improvements, by Richard Rawlinfon, L. L. D. and F. R.S. and publilhed at London in 1730, in 2 vols 8 ro. 2. A Copious Abridgement of Univerfal Hiftory and Biography. in chronological order, under the title of Tableites Chironologiques; which made its firlt appearance at Paris in 1744, in 2 vols fral! 8 ro. and was univerfally admired by the literati in all paits of Europe. The author attended with great candour, as every writer ought, to well-founded judicious criticifms. In future editions the made feveral alterations and improvements, and from one of thefe, we believe, that of 1759 , an Englifh tranflation was made, and publifthed at London in 1762 , in 2 rolc. large Svo. Du Frefnoy cied in 1755 : the Paris edition of 1759 was printed from the author's corrected copy; and the impreflion being fold off, another edition appeared in $17 \mathrm{C}_{3}$, with coulfiderable improvements by an unknown editor: to the biographical part a great numter of names of refpectable perfons are added, not to be found in the former edition; and it has this fuperin advantage in the hiftorical parts, that the general liflory is brought down to the year 1762. Du Frefnoy, honever, las loaded lis work with catalogues of faints, mertyrs, councils, fynods, herefies, fchifins, and other ecclefiantical matters, fit only for the libraries of Pupifh convents and feminaries.

LENG IHI, the extent of any thing material from end to end. In duration, it is applied to any fpace of time, whethe: long of fhort.

LENGTHENING, in fh:p carpentry, the operation of cuating a haip down acrofs the middle, and adding a certain portion to her length. It is performed hy laming her planks afunder in different places of her
length, on eacls ficic of the midhip frame, to prectent her from being too much wealiened in one place. The two ends are then diawn apatt to a limited dilanee; which muft be equal to the propofed addition of length. An internicaiate piece of timber is next added to the keel, upon which a fulicient number o: timbers are erected, to fill up the vacancy produced by the feparation. The two parts of the kellon are afterwards united by an additional piece which is foored dowv upon the floor timbers, and as many beams as may be neceffary are fived acoofs the thip in the new: interval. Finally, The planks of the fide are prolonged fo as to unite with each other; and thofe of the ceiling refitted in the fame manner; by whicla the whole procefs is completed.

LENOX or Dusbartonshtre, a county of Scolland. See Dunbartosimire. Among the rivers of this county is the Blane, which, though itielf an inconfiderable ftream, has been rendered famous by the birth of George Buchanan, the celebrated Latin poet and hittorian. The fame fart of the courtry gave birth to the great mathematician and naturalif, Baron Napicr of Merchifton, inventor of the logarithms. The title of Lencx, with the property of great part of the flise, was heretofcre vefted in a brancla of the royal family of Stuatt, with which it was reunited in the perfon of Kiug James VI. whofe father, Henry Lord Darnley, was fon of the duke of Lemos. T'his pritice conferral the title upon his kinfman Elx.e Stuart, fon of Joln Lord d'Aubigny in France; but his race failing at the death of Charles duke of Lenos and Richmond, and the eftate derolving to the crows, King Charles II. conferredboth titles on his own natural fon by the duchefs of Portfmouth ; and they are fill enjoved by his pofterity. The people of I.enoxhhire are chiefly Lowlanders, though in fome parts of it divine fervice is perfurmed in the Erfe lansuage.-The moft nu:nerous clans in this difrict are the Macfarlanes, the Coiquhoure, and the Buchar:ans.

LENS, a piece of glafs, or any other tranfparent fubfance, the farfacts of which are fo formed, that the rays of light, by pafing through it, are made to change their direction, either tending to meet in a point beyond the lens, or made to become parallel after conserging or diverging ; or latly, proceeding as if they had iffued from a point befure they fell upon the lens. Some lenfes are convex, or thicker in the middle; fome concave, or thinner in the midlie; fome plano-convex, or plano-concave; that is with one fide flat, and the other convex or concave ; and fome aie called menifcufes, or convex on one fide and concave on the other. See Diormics.
Lenfes, are of two kinds, cither blown or ground.
Blown Lenses, are only made ufe of in the fingle microfcope, and the common method of miking them has heen to draw out a fine thread of the fot whise glafs called crufal, and to convert the che of it into: : fpherule by nielting it at the flame of a canille. Mr Nicholfon obferves that window glafs affords eacellene fpherulcs. A thin piece from the cilsc of a pane of glafs one tenth of an ilich broad was held perpendicularly, and the flame of a candle was directed againit it by means of the blow- pipc, when it became fist, and the lower end defcended by its own weight to the wi. fance of about two feet, shere is remained fufpended

Ly a thin thread of glafs about $\frac{3^{\circ} 0^{\circ} \delta \text { of an inch in dia- }}{}$ meter. A pari $\&$ this thread was applied endwife to the lower blue part of the flame of the candle without the blow pipe, when the end became inflantly whitehot, and formed a globule, which was gradualiy thruft torsards the tlame till it became futliciently large. A number of thefe were made and examined, by viewing their focal images with a deep magnifier, when they appeared bright, perfect, and round.

Ground Levses are fuch as are rubbed into the thape required, and polithed. Several shapes have been propofed, but the fuherical bas been found to be the mont practically ufeful. Yet by various modes of grinding, the artificer can produce no more than an approximation to a figure exactly fpherical, and men of letters or others muft depend entirely on the care and integrity of workmen for the fphericity of the lenfes of their teletcopes. Mr Jenkins has defcribed a machine, which being fo contrived as to turn a fphere at one and the fame time on two axes, cutting each other at right angles, will produce the fegment of a true Phere, merely by tuming round the wheels, and that without any care or fhill in the workmen. See MEChanics.

LENT, a folems time of fafting in the Chriftian church, obferved as a time of humiliation before Ealter, the great feftival of our Saviour's refurrection.

Thofe of the Rominh church, and fome of the Proteftant communion, maintai!, that it was always a fall of 4 daps, and, as fuch, of apofolical inftitution. Others think it was only of ecclefiaftical infitution, and that it was varioufly oblerved in different churches, and grew by degrees from a faft of 40 hours to a faft of 40 days. This is the fentiment of Morton, Biliop Taylor, Du Moulin, Daillé, and others.

Anciently the manner of obferving lent among thofe who were pioully difpofed, was to abftain from food till evening : their only refrefbment was a fuppér ; and then it was indifferent whether it was fleh or any other food, frovided it was ufed with fobriety and moderation.

Lent was thought the proper time for exercifing, more abundantly, every fpecies of charity. Thus what they fpared from their own bodies by abridging them of a meal, was ufually given to the poor; they employed their vacant hours in vifiting the fick and thofe that were in prifon, in entertaining ftrangers, and reconciling differences. The imperial laws forbade all profecution of men in criminal actions, that might bring thern to corporal punifhment and torture, during the whole feafon. This nas a time of more than ordinary frictnefs and devotion, and therefore in many of the great churches they had religious affemblies for prayer and preaching every day. All public games and flage plays were prohibited at this feafon; as alfo the celebration of all feftivals, birth days, and marriages, as unfuitable to the prefent occafion.

The Chriftians of the Greek church oblerve four lents: the firft commences on the 15 th of November; the fecond is the fame with our lent; the third begins the week after Whitfuntide, and continues till the feftival of St Peter and St Paul ; and the fourth commences on the firft of Auguft, and lafls no longer than
till the 1 th. Thefe lents are oblerved with great fricinels and aullecity; but on Saturdays and Sundays they indulge themfelves in drinking wine and ufing oil, which are prohibited on other days.

LENTIL. See Ervus, Botary Index.
LENTINL. See Leoitini.
Lentiscus. See Prsticia, Botany Index.
LEO. See Felis, Mammaila Inder.
Leo, in Aflonomy, the fifth of the 12 figns of the zodiac. The flars in the conftellation Leo, in Ptolemy's catalogue are $2 \%$, befides the unformed, which are 8 ; in Tycho's 30 ; in the Britannic catalogue 95.

Leo X. Pope, fecond fon of Lorenzo de Medici, was born at Florence in December 1475, and received the baptifmal name of Giovanni, or John. He received the tonfure at feven years of age, his father having deftined him for the church. Being even at that early period declared capable of clerical prefer. ment, he obtained two rich abbacies through the intereft of his father with Louis XI of France, and Pope Sixtus IV. At a very early period he held no ferver than 29 church perferments, a flrong proof of the moft fcandalous corruption, as well as of the intereft which his family enjoyed. In the time of Innocent VIII. he was promoted to the high rank of cardinal, when no more than 13 years of age, which took place in the year 1.488. If the great influence of his father was unqueftionably cenfurable in promoting the rapid and illegal advancement of his fon, it is but juftice to admit that he employed all bis efforts to qualify him for fuch premature dignity. The learned Angelo Poliziano had the care of his early education, which was greatly accelerated by the uncommon gravity and folidity of his difpofition. He was invelted with the purple in 1492 , going afterwards to refide at Rome as one of the facred college. Having oppofed the election of Alexander VII, to the pontificate, he found it prudent to withdraw to Florence, in which place he acquired much perfonal efteem ; but on the invalion of Italy by Charles VIll. of France, he was involved in the expulfion of his brother Piero, and took refuge at Bolog. na. In 1499 he made a tour through the ftates of Venice, Germany, and France, going afterwards to Rome, where be lived fafe and refpected during the pontificate of Alexander, in confequence of his prudent behaviour.

In 1505 , when 30 years of age, he began to take an active part in public affairs, and Julius II. appointed him governor of Perugia. As he adhered with unfhaken refolution to the intereft of the pope, he acquired the confidence of his holinefs, in fo eminent a manner, that he was entrufted with the direction of the papal army againf France; and if he was not competent to conduct the military operations, he was of fingular fervice in maintaining good order in the camp. He was taken prifoner at the bloody battle of Ravenna in 1512 , and conveyed to Milan, where the dignity of his facred office procured him refpect. From this place he found means to efcape, and returned to Bologna, affuming the government of the difrict in the capacity of the pope's legate.

At the election of a new pope in the room of Julius 1I. he was chofen to the pontificate, being then only 38 years of age. Whatever might be the leading mutives

## L E O

of the conclave ior clecting to young a pope, it is agreed on all hands, th:t it was not efteited by tho!e corrupt practices ioo coinmon on fuch occalions; and he alcended the chane under the name of Leo $X$. with greater proofs of affection on the part of both Italians and furengners than the greater pant of his predecefors. He difplayed his lowe of literature by the nomination of Bembo and Sadoleti to the office of papal fecretaries.

One of his firt aitempts was to free Italy from the dominion of foreign powers: and having tation into pay a large body of Swifs, he gained a victory over the French in the reign of Louis XII. at the bloody battle of Novara, by which memns they were driven from Italy; and the king of France having incurred ecclefiatical cenfure, fubmitted in form, and received abfolution. Hawing thus fecured internal teanquilli$t y$, he turned his attention to the encouragement of 1 i terature and men of genius. He effected the reftoration of the Roman univerlity to its former fplendour by means of new grants and privileges, and by filling the profeflorlhips with diftinguithed characters from every quarter. A Greek prefs was ellablithed in the city, and all Europe was informed that perfons bringing ancient manufcripts to the pope would be liberally rewarded, befides having them printed at the expence of the holy fee. He alfo promoted the ftudy of oriental literature, and he had the honour of founding the firt profefforlhip of the Syriac and Chaldaic languages at Bologna.

On the death of Louis XII. of France, and the acceffion of Francis I. to the throne, it foon became apparent that a new war was inevitable in the north of Italy. Leo endeavoured to remain neuter, but with. cut fuccefs, in conlequence of which he joined in a league with the emperor, the king of Arragon, the flates of Milan and Florence, and the Swifs cantons, againlt the French hing and the fate of Venice. But he foon found it expedient th defert his allies, and form a union with Francis, which took place in 1515 , at an interview between the two fovereigns.

In Ijif, the duke of Urbino, whom he had expelled, in order to make way for his nephew Lorenzo. co!lected an army, and by rapid movements regained his capital and dominions, which chagrined Leo to fuch a degree, that he endeavoured to raife all the Chriatian princes againtt him. He raifed an army under the command of his nephew, and the duke was finally compelled to relinquilh his dominions upon honourable terms. In this year the life of Leo was in danger, and all hi, moments embittered by a confpiracy againft -him in his own court. Petrucci, the chief author of it, had formed a plan of deftroying the pope by poifon ; but having failed in this attempt, he withdrew from Rome, ftill, however, carrying on a correfpondence with his fectetary. Some of his letters being in. tercepted, he was arrefted on his way to Rome, and committed to prifon. He was ftrangled, and his accomplices were put to death with the feveref tortures. 'lo thelter himfelf from danger, whether real or imaginary, Leo created 31 new cardinals in one day, chielly from atmong his own relations, and fome of them deterving of fuch dignity by their virtues and talents.

Voi. XI. Par: II.

In the reign of this pontiff began the reformation of religion under the ce'ebrated Nattin Luthor, who intlitted fuch a wound on the Romith (hurch as will never be healed. I.cu's tatle for luxuriou, niagnificence and every object of expence having exhauted his coffers, he took from the church the profis ariting from the fale of indul gences for his own private cmolument. Thefe wares were extolled in languase which thocked the pious and thinking part of mankind, and facilitated the progrefs of the reformation in the hands of fuch a ma:s as Luther, whom nothing could intimidate. This great man during his oppofition to the extravagance of Leo in the fale of indulgences, was ftill will. ing to be rcconciled; but as he infifted on making an miqualified appeal to the language of Scripture, and Leo would admit of mothing but an unqualified appeal to the decrees of the church, it is ubvious that a reconciliation was impoffible. 'The works of Luther were burnt in different places by Leo's command, and Luther in his turn made a folemn and public contlagration of the papal decrees and constitutions, and even of the bull itfelf. It was this pontiff who conferred on Henry VIII. of England the title of defender of the faith, to which he appears to have had very little claim.

The private hours of Leo, it is faid, were devoted to indolence, or to amufements; and that fome of them were unworthy of his clerical dignity. Many enormities are afcribed to him which ve flhall pals over in filence, as they do not appear to have fuch inconteftable evidence as to warrant the belief of them. He never loll light of his favourite idea of expelling the French from ltaly. The Swifs who had been in the fervice of France were induced to defert, the allies croffed the Adda, and entered Milan withaut oppofition. They next entered the territoris of the duke of Ferrara who had efpoufed the caufe of France. Mauy of lis frong places were taken, and liege was about io be laid to his capital, when it was prevented by the i:rdifpolition of the pope, which in the fpace of eight days terminated in his death, on December 1. 1521. in the 4 th year of his age, and the 9 th of his pontificate. It was fuppofed by fome that he died by poilon, but we have feen no fufficient procf for fuch a conclur fron. Without attempting to draw the moral and pulitical character of this celebrated pontiff, about which mankind have been fo much divided, it may be fairly afferted that he clains the gratitude of poferity for the ample encouragement which he afforded to men of fcience and literature, and the eagernefs with which be promoted the fudy of the fine arts, qualities fufliciont to reil all the failings or faules which can jutily be charged to his account. This character of Leo has been finely celebrated by Pope in the following verfes.

> But fee! each mufe, in Leo's golden days, Starts from her trance; and trims her witherd bays; Rome's ancient Genius, o'er its ruins fpread,
> Shakes off the dult, and rears his res'rend head.
> Then Sculpture and her fiter Arts revive:
> Stones leap to form, and rock, begin to live;
> With fweeter notes each rifing temple rung;
> A Raphael painted, and a Vida fung.

Ly:o, S:, a fmall but frong town of Italy, in the ; D
territory

## L E O

Honiin ?ef territory of the church, and duchy of Urbino, with a

LEOMINSTER, a town of Herefordhire, in England, feated on the river Lug, which waters the noth and eaff fides of the town, and over which there are feveral bridges. It is a large, handfome, populous borough ; and is a great thoroughfare betwist South Wales and London, from which laft it is diftant 113 meafured miles. In King John's reign it was burnt, but foon rebuilt. It was incorporated by Queen Mary, and is goverised by a high fteward, bailiff, recorder, \&c. The beft flax is faid to grow here, and it has been equally noted for the beft wheat, barley, and the finett bread. The inhabitants have a confiderable trade not orly in wool, but in gloves, leather, hatmakian, \&c. and there are feveral rivers in and about the town on which they have mills and other machines. Near its church are fome remains of its priory; and on a neighbouring hill are the ruins of a palace, called to this day Comfort Caftle. It fendstwo members to parliament. W. Long. 2. 45. N. Lat. 52. 20.

LEON, an ancient town of France, in Lower Bretagne, and capital of the Lyonnois, with a bihop's fee. It is feated near the fea, in IV. Long. 3. 55. N. Lat. $4^{8 .} 4$ I.

Lfos, a province of Spain, with the title of a kingdom ; bounded on the north by Afturias; on the weft by Galicia and Portugal ; and on the fouth by Eftremadura and Caftile, which alfo bounds it on the eaft. It is about 125 miles in length, and 100 in breadth; and is divided into two almolt equal parts by the river Ducro, or Douro. It produces all the neceflarics of life, and Leon is the capital town.

Leon, an ancient and large epifcopal town of Spain, and capital of the kingdom of that name, built by the Romans in the time of Galba. It has the fineft cathedral church in all Spain. It was formerly more rich and populcus than at prefent, and had the honour of being the capital of the firf Chriftian kingdom in Spain. It is feated between two fources of the river Efla, in W. Long. 5. 13. N. Lat. 42.55.

Leon, Peter Cicca de, author of the hillory of Pcru. He Ieft Spain, his native country, at 13 years of age in order to go into America, where he refided 17 years; and obferved fo many remarkable things, that he refolyed to commit them to writing. 'The firft part of his hiflory was printed at Seville in 1553. He bcgan it in 154 I , and ended it in $\mathbf{5} 50$. He was at Lima, the capital of the kingdom of Peru, when he gave the finifhing flroke to it, and was then 32 yeass of age.

Leon de Nicaragum a town of North America, in New Spain, and in the province of Nicaragua; the refidence of the governor, and a bifhop's fee. It confifts of about 1000 houfes, and has feveral monafteries and nummeries belonging to it. At one end of the rown is a lake which ebbs and flows like the fea. The town is feated at the foot of a volcano, which renders it fubject to cartinuakes. It was taken by the bucaniers in 1685 , in fight of a Spanilh army who were fix to one. W. Long. 86. io. N. Lat. 12. 25.

LEONARD De NObler, $S t$, an ancient tewn of France, in the province of Guicme and territcry of Limofrs, with a confiderable manufa@ory of clo:h and

II bihop's fue. It is feated on a mountain, near the river Marrechia, in E. Long. 12. 25. N. Lat. 43. 57.
$\underbrace{\text { Leonard. }}$
paper. It is feated on the river Viense, in E. Long. Lconard 1. 35. N. Lat. 45.52.

LEONARDO da vinct. Sce Vingi.
LEONCLAVIUS, Jons, one of the mon learned men of the 16 th century, was a native of Weftphalia. He travelled into Turkey, and collected excellent materials for compofing The Ottoman Hilory; and it is to him the public is indebted for the beft account we have of that empire. To his knowledge in the learned languages he had added that of the civil law ; whereby he was very well qualified to tranflate the Bafilica. His other verfions were effeemed, though critics pretend to have found many faults in them. He died in 1593 , aged 60.

LEONIDAS I. king of Sparta, a renowned warrior, hain in defending the ftraits of Thermopylæ againt Xerxes, 480 B. C. See Sparta.

LEONINE, in poetry, is applied to a kind of verfes which rhime at every heminic, the middle always chiming to the end. Of which kind we find feveral ancient hymns, epigrams, prophecies, \&e.-For inflance, 'Muretus fpeaking of the poetry of Lorenzo Gambara of Brefie, fays,

Brixia, vefratis merdofa volumina vatis, Non funt noffrates tergere digna natis.
The following one is from the fchool of Salernam :

## Ut vites pœenam de potibus incipe ccenam.

The origin of the word is fomewhat obfcure: Pafquier derives it from one Leoninus or Leonius, who excelled in this way; and dedicated feveral picces to Pope Alexander III.; others derive it from Pope Leo; and others from the beaft called lion, by reafon it is the loftieft of all verfes.

LEONTICA, feafts or facrifices celebrated among the ancients in honour of the fun.- They were called Leontica, and the prieft who officiated at them Leones, becaufe they reprefented the fun under the figure of a lion radiant, bearing a tiara, and griping in bis two fore paws the horns of a bull, who ilruggled with hina in vain to difengage himfelf.

The critics are extremely divided about this feaf. Some will have it anniverfary, and to have made its return not in a folar but in a lunar year ; but others hold its return more frequent, and give inflances where the period was not above two handred and twenty days.

The cercmony was fometimes alfo called Mithriace, Mithras being the name of the fun among the ancient Perfians. There was always a man facrificed at thefe featts, till the time of Hadrian, who prohibited it by a law. Commodus introduced the cuftom afrell, after whofe time it was again exploded.

LEONTICE, LION's LEAF, a genus of plants belonging to the hexandria clafs; and in the natural method ranking under the 24th order, Corydales. Sce Botany Index.

Leontini, or Leontium, in Ancient Goegraphy, a town of Sicily on the fouth fide of the river Terias, 20 miles north-weft of Syracufe. The territory, called Campi Leontini, was extremely fertile (Cicero): thefe were the Campi Lafligomii, anciently fo called; the feat of the Læitrigons, according to the commentators on the poets. The name Lcontin: is from Lco, the im-

Lesatium prelfion on their coin being a lion. Now call lentini, a town fituated in the Val di Noto, in the fouth-calt of Sicily.

LEON IIUM, one of the twelve towns of Achaia, whether on, or more diftant from, the bay of Corinth, is uncertain. Leontium of Sicily. See Leontint.

LEONTODON, DANDELION, a genus of plants belonging to the fyngenefia clafs, and in the natural method ranking under the 49 th order, Compofita. See Botatiy Index.
L.EONURUS, Lios's-TAIL, a genus of plants belonging to the didynamia clafs, and in the natural method ranking under the 42 d order, Vericillatic. See Botany Index:

LEOPARD. See Felis, Mammalia Index:
Leopard's Bate. See Doronicum, Botany Index.
LEPANTO, a ftrong and very confiderable town of Turkey in Europe, and in Livadia, with an archbifhop's fee and a ftrong fort. It is built on the top of a mountain, in form of a fugar-loaf; and is divided into four towns, each furrounded by walls, and commanded by a caftle on the top of the mountain. The harbour is very fmall, and may be fhut up by a chain, the entrance being but 50 feet wide. It was taken from the 'Turks by the Venetians in 1678 ; but was afterwards evacuated, and the caftle demolifhed in 1699, in confequence of the treaty of Carlowitz. It was near this town that Don John of Auftria obtain. ed the famous victory over the Turkih teet in 1571. The produce of the adjacent country is wine, oil, corn, and rice. Turkey leather is alfo manufactured here. The wine would be exceeding good if they did not pitch their veffels on the infide, but this renders the tafte very difagreeable to thofe who are not accuftomed to it. The Turks have fix or feven mofques here, and the Greeks two churches. It is feated on a gulf of the fame name, in E. Long. 22.13. N. Lat. 38. 34 .

LEPAS, the ACORN, a genus of fhell-fifh belonging to the order of vernes teflacea. See Conchology Index.

LEPIDIUM, Dittander, or Pepperwort, a genus of plants belonging to the tetradynamia clafs, and in the natural method ranking under the $39^{\text {th }}$ order, siliquofa. See Botany Index.

LEPIDOPTERA, in Zoology, an order of infects, with four wings, which are covered with imbricated fales. See Entomology.
L.EPISMA, a genus of infects belonging to the order of Aptera. See Entomology Index.

LEPROSY, a foul cutaneous dileale, appearing in dry, white, thin, fcurfy fcabs, either on the whole body, or only fome parts of it , and ufually attended with a violent itching and other pains. See Medicine Inder.

The leprofy is of various kinds, but the Jews were particularly fubject to that called Elephantinfis. Hence the lewifh lav excluded lepers from communion with mankind, banihing them into the country or uninhahited places, without excepting even kings. When a leper was cleanfed, he came to the city gate, and was there examined by the prichs; after this he took two live birds so the temple, and faftened one of them to a wifp of cedar and hyffop tied together with a fcarlet ribben; the Cecond bird was silled by the leper, and the blood of it received inio a veliel of water; with
this water the prie? furinkled the leper, dipping the Leptore wifp and the live bird into it: this done, the live bird phalus was let go; and the leper, having undergone this ceremony, wats again admitted into fucicey and to the ufe of things facred. Sce Lcvit. siii. 46.47. and Le"it. xir. 1, 2, \&:c.

LEPTOCEPHALUS, a genus of fillies, belong. ing to the order of Apodes. See Ichthyology Index.

LEPTOPOLYGINGLIMI, in Natural Hifory, a genus of foffil thells, diftinguified by a number of minute tecth at the hinge. Specimens of thefe are found at Harwich cliff, and in the marl pits of Suffex.

LEPTUM, in antiquity, a fmall piece of money, which, according to fome, was only the eighth part of an obolus; but others will have it to be a filver or brafs drachm.

LEPTURA, a genus of infects belonging to the order of coleoptera. See Entomology Index.

LEPUS, a genus of quadrupeds belonging to the order of glires. See Mammalia Inder:.

Lepus, the hare, in Aftronomy, a conftellation of the fouthern hemifphere; whofe ttars in Ptolemy's catalogue are 12; in that of Tycho's 13 ; and in the Britannic 19.

LERCHEA, a genus of plants belonging to the monadelphia clals. See Botany Index.

LERIA, or LeIria, a frong town of Portugal, in Eflremadura, with a caftle and bihop's fee. It contains about 3500 inhabitants, and was formerly the refidence of the kings of Portugal. W. Long. 7. 50. N. Lat. 39. 40.

LERIDA, an ancient, ftrong, and large town of Spain, in Catalonia, with a bifhop's fee, an univerfity, and a ftrong caftle. This place declared for King Charles after the reduction of Barcelona in 1705 ; but it was retaken by the duke of Orleans in 1707 , after the battle of Almanza. It is leated on a hill near the river Segra, and in a fertile foil, in E. Long. o. 35. N. Lat. 41. 3 I.

Lerina, or Planasia, in Ancient Geography, one of the two fmall illands over againft Antipolis, called alfo Lerinas and Lirinus. Now St Honorat, on the coait of Provence, fearce two leagues to the fouth of Antibes.

LER1NS, the name of two iflands in the Mediterranean lea, lying on the coalt of Provence in France, five miles from Antibes; that near the coaft, called St Margaret, is guarded by invalids, ftate prifoners being fent here. It was taken by the Englifis in 1746 , but Marfhal Belleifle retook it in 1747. The other is called St Honorat; and it is lefs than the former, bu: has a Benedictine abbey.
I. ERMA, a town of Spain, in Old Caftile, feated on the river Arlanza, with the title of a dachy. W. Long. 3. 5. N. Lat. 42.2 .

LERNA, in Ancient Geogsraphy, not far from Argos, on the confines of Laconia; fuppofed to be a town of Laconia, but on the borders of Argulis; the pofition Paufanias allots to it, near Cemenium, on the fea; without adding whether it is a town, river, or lake. According to Strabo, it is a lake, fituated between the territories of Argos and Mycene, in contradiction to Paufanias. If there was a town of this name, it

Ternea feems to have fonod towards the fea, but the lake to have heen more :nland. Mela calls it a well known town on mean foracthing more than a lake. This, however, is the Jake in which, as Strabo fayc, was the fabled Hydra of Hercules: therefore called Lerna Anguifera (Statius). The lake runsin a iver or flream to the fea, and perhaps anifes from a river (Virgil). From the lake the proierb, Lerna Malorum, took its rife; becau!e, according to Strabo, religious purgations were performed in it : or, according to Hefychius, becaufe the Argives threw all their filth into it.

ISRNEA, a genus of animals of the clafs of vermes. Se Hfluin rhology Inder.
LERNICA, formerly a large city in the ifland of Cyprus, as appears from its ruins: but is now no more than a large village, feated on the fouthern coaft of that iland, where there is a good road, and a frall fort for its defeace.

LERO, in Ancien: Geography, one of the two fmall iflands in the Méfiterranean, oppofite to Antipolis, and half a mile diffant from it to the fouth. Now St Margarita, over againf Antibes, on the coail of Provence.

Lero, or Leros, an illand of the Archipelago, and one of the Sporades; remarkable, according to fome authors, for the birth of Patroclus. E. Long. 26. I5. N. Lat. 57.0 .

LE Roy le veut, the ling's affent to public liills. See the articles Bill, Stitute, and Parlitimemt.

LERWICK, a town on the Mainland of Shetland, and the feat of the courts of that flewarty. It is fituated on the fpacious harbour called Lerwick or Breflay fuund, and derives its only importance from the courts of law, and the veffels employed in the whale-fifhery, which make a rendezvous of the bay. It is computed to contain about 1000 inhabitants. The parih extends about fix miles along the fea coaf, and is in no place more than a mile in breadth. On the north and eaft it is bounded by the fea, which feparates it from Brellay ifland. The furface of the parith is rocky and mountainous, but there are a number of fine arable fields on the fea coant, the foil of which is light and fandy, but fertile and productive. Near the north end of the town there is a fmall fortitication called Fort Charlotte, which commands the north entry to Breflay icund, and is garrifoned by a detachment of invalids. It was completely repaired by order of government in the year $178 \mathbf{t}$. There are feveral large cannon for commanding the harbour and protecting the town. There is a fraw-plaiting manufactory at Lervick, furuilling upwards of 50 girls with cmployment, who have one penny per yard for their work; 20 yards of which can be made by fome of them in the courfe of a day. It is carried on by a company is. London. There 2 re two chalybeate fprings in the vicinity of the town, tat neither of them is highly impregnated, although the ene is fironger than the other. W. Loing. 1. 30. N. Lat. 60. 20.

LESBOS, a large ifland in the Ægean fea, on the coaft of Atolia, abokt 168 miles in ci:cumference. It has teen feverally called Pelafsia, from the Pelafgi by whon it was firt peopled; Macaria, from Macareus who fettled in it; and Lefoos, from the fon-in-law and
fucceifor of Macareus who bore the fame name. The chief towns of Leßbos were Methymna and Mitylene. It was originally governed by kinge, but they were afterwards fubjected to the neighbouring powers. The wine which it produced was greatly efteemed by the ancients, and ftill is in the fame repute among the moderns. The Lefbians were fo delouched and dillipated, that the epithet of Le/bian was often uled to fignify debaucliery and extravagance. Lefbos has given birth to many illullrious perfons, fuch as Arion, Tierpander, Sappho. \&c. Sce Mitylene.

LESCAILLE, Jayes, a celebrated Dutch poet and printer, was born at Genera. He and his daughter Catherine Lefcaille have excelled all the Dutch poets. That lady, who was furnamed the Sappho of Holland, and the temth Mufs, died in 1711. A collection of her poems has been printed, in which are the Tragedies of Genferic, Wenceflaus, Herod and Mariamne, Herciles and Dejancira, Nicomedes, Ariadne, Cafliandra, Exc. James Lefczille her fatleer deferved. the poet's crown, with which the emperor Leopold honoured him in the year 1603 : he died about the year 167 , aged 67 .
L.ESCAR, a town of Gafcony, in France, and in the territory of Bearn, with a bilhop': fee; feated on a hill, in W. Leng. O. 30. N. Lat. $43 \cdot 23$.

LESGUIS, a people of Afia, whole country is indifferently called by the Georgians Lefguifan and Dagheffan. It is bounded to the fouth and eaft by Perfia and the Cafpian ; to the fouth-weft and welt by Georgia, the Offi, and Kitti; and to the nerth by thie Kitti and Tartar tribes. It is divided into a variety of difricts, generally independent, and governed by chiefs elected by the people. Guldentaedt bas remarked, in the Lefguis language, eight different dialects, and has claffed their tribes in conformity to this obfervation.

The firt dialeet comprehends 15 tribes, which are as follow: 1. Avar, in Georgia Chunfagh. The chief of this diftrict, commonly called Avar Khan, is the molt powerful prince of Lefguiftan, and refides at Kabuda, on the river Kaferuk. The village of Avar is, in the dialect of Andi, called Harbul. 2. Kaferuk, in the high mountains, extending along a branch of the Koifu, called Karal. This diftrit is dependant on the khan of the Kafi Kumychs. 3. Idatle, on the Keifu, joining on the Andi; fubject to the Avar Khan. 4. Mukratle, fituated on the Karak, and fubject to the Avar Khan. 5. Onfekul, fubject to the fame, and fiturted on the Koifu. 6. Karakhle, upon the Karak, below Kaferuk, fubject to the fame. 7. Ghumbet, on the river Ghumbet, that joins the Koifu, fubject to the chief of the Coumyks. 8. Arakan; and, 9. Burtuma, on the Koifu. 10. Antfugh, on the Samura, fubject to Georgia. 11. Tebel, on the fame river, independent. 12. Tamurgi, or Tumural, on the fame river. 13. Akhti; and, 14. Rutal, on the fame. 15. Dihar, in a valley that runs from the Alazan to the Samura. It was formerly fubject to Georgia, but is now independent. In this dittrict are feen remains of the old wall that begins at Derbent, and probably terminates at the A-lazan.- I'he inhabitants of Derbent believe that their town was built by Alexander, and that this wall formerly extended as far as the Black fea. It is, how-

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tsimis. cever, probable, from many inferiptions in old Turkifh, Perfian, Arabic, and Rufill characters, that the wall, and the aquerta? with their various fubterrmeous paffares, many of which are now filled up, are of high antiquity. This town fuffered greatly during its fiege by Sultan Amurath, who entirely deftroyed the lower quarter, then inhabited by Greeks. It was again taken by Schaln Abbas. (Gaerber.) This town is the old Pylee Cafpix.

The fecond dialect is fpoken in the two follorsing dilliets: I. Dido, or Didorli, about the fource of the Somura. This difrict is rich in mines; a ridge of uninhabited mountains divides it from Caket. 2. Unfo, on the finali rivulets that join the Smura. Thefe two dinticts, containing tugether about 1000 families, were formerly lubject to Georgia, but are now independent.

The third disleg is that of Kabuth, which lies on the Samura rivulets, eaft of Dido, and north of Ca. ket.

The fourth diaject is that of Andi, fituated on a rivulet that runs into the Koifu. Some of its villages are lubject to the $\Lambda$ var Khan, but the greater part to the khan of Axai. The whole confils of about 800 fumilies.

The fifth dialect is common to four dillricts, namely, 1. Akuth , on the Koifu, fubject to the Uninei, or khan of the Caitaks, and Karn Caitaks, containing about 1000 families. The following cuftom is attributed by Colonel Gaerber to the fubjects of this prince: "Whenever the Ufmei has a fon, he is carried round from village to village, and alternately fuckled by every woman who has a child at her brealt until he is reaned. This cuftom, by eftablinhing a kind of brotherhood between the prince and his fubjects, fingularly endears them to each other." 2. Balkar. 3. Zudakara, or Zudakt, down the Koifu, fubject to the Ufmei. 4. Kubelha, near the Koifu. Colonel Gaerber, who wrote an account of thefe countries in 1729, gives the following defcription of this ve:y cusious place: "Kubelha is a large frong town. lituated on a hill between high mountains. Its inhabitants call themfelies Franki (Franks, a name common in the eaft to all Europeans), and relate, that their anceifors were brought hither by fome accident, the particulars of which are now forgotten. The common conjecture is, that they were marimers caft away upon the coait ; but thofe who pretend to be better verfed in their hillory, tell the fory :his way:-The Greeks and Genoefe, fay they, carried on, during feveral centuries, a confiderable trade, not only on the Black rea, but likewife on the Calpian, and were certainly acquainted with the mines contained in thefe mountains, from which they drew by their trade with the inhabitants great quantiries of filver, copper, and otber metals. In order to work thefe upon the fint, they fent hither a number of workmen to eltabliti manufactures, and intruet the inhabitants. 'The fubfenuent invafions of the Arabs, Turks, and Monguls, during which the mines were filled up, and the :mamulactures abandioned, prevented the ftrangers from effecting their return, fo that they continucd lierc, and erected themelves into a republic. What senders this account the morc probable is, that they are itiil excellent artifts, and make vory good fire arms, as well rifled as plain; fabres, coats of mail, and feveral
articles in goid and filver, for exportation. They have likewife, for their own defence, fimall copper camons, of three pounds calibre, caft by themfelies. Hhey coin Tourkilh and Perlian dilser money, and even rubles, which readily pals current, becaufe they are of the full weight and vilue. In iheir valleys they lave panure and arable lands, as well as gardens; but tiseg purchafe the greater part of thei, conn, trufting chitily for fupport to the fale of their manulictures, shich are much admired in Perfia, Jurkey, and the Crimea. 'They are fenerally in good circumftances, are a cluict, inoffenfive peuple, but high 「pisited, and independent. Oheir town is confidered as a neutral funt, where the neighbouring, princes can depofte their :reafures with fafety. 'lhey elect yearly twelve magitl rates, to whom they pay the mo.l walimired obedience; and as all the inhabitants are on a footing of perfect equality, each individual is fure to have in his turn a thare in the govornment. In the year i 725 , their magiltrates, as well as the Ufnjei, acknowledged the fovereignty of Ruffia, but rithout paying any tribute." j. Zudakara, or Zadakl?, down the Koifu, fubject to the Ufmei. It contains about 2200 families.

The fixth dialect betongs to the difricts on the eafiern tlope of Caucafus, between Tarku and Derbent, which are, 1. Caitak; and, 2. Tabafleran, or Kara-Caitak, both fubject to the Ufinei.

The feventh dialect is that of Kafi-Coumyk, on a branch of the Konifu, near Zudakara. This tribe bas a kian, whofe authority is recognized by fome neighbouring diltrizs.

The eighth diale? is that of Kuraele, belonging to the khan of Cuba.

Befides thefe, there are fome other Lefguis tribes, whofe dialects Mr Guldenttaedt was unable to procure. From a comparifon of thofe which he has obtained, it appears that the language of the Leefguis has no kind of alfinity with any other known language, excepting only the Samoyede, to which it has a remote refemblance.

This people is probably defcended from the tribes of mountaineers, known to ancient geographers under the name of Lefsex, or Ligyes. The flrength of their country, which is a region of mountains whofe paffes are known only to themfelves, has probably at all timefecured them from foreign invalion; but as the fame caufe muf have divided them into a number of tribes, independent of each other, and perhaps almays diftinguifhed by different dialects, it is not ealy to imagine any common caule of union which can ever have aflembled the whole nation, and lave led them to undertake very remote conquelfs. Their hifiory, therefore, were it known, would probably be very uninterefling to us. 'Ihey fubfitt by raifing cattie, and by predatory expeditions into the countries of their more wealthy neighbours. During the truubles in Perlia, towards the beginning of this century, they repeatedly facked the towns of Shamachie and Ardebil, and ra. vaged the neighbouring diltricts; and the prelent wretched ftate of Georgia and of part of Armenia, is owing to the frequency of their incurfions. In their perlons and drefs, and in their general habits of life, as far as thele are known to us, they greatly refemble the Circafians.

LESKARD, a town in Cornwall, feated in a plåa,

Lefie. is a corporation, and fends two members to parliament. It had formerly a cafte, now in ruins. It is one of the largen and beft built towns in Cornwall, with the greateft market. It was firft incorporated by Edward earl of Cornwall, afterwards by King John's Lon, Richard king of the Romans, and had privileges from Edward the Black Prince. Queen Elizabeth granted it a charter; by which it was to have a mayor and burgefles, who fhould have a perpetual furceffion, purchafe lands, \&c. Here is a handfome town hall built on flone pillars, with a turret on it, and a noble clock with four dials, a large church, a meeting houfe, an eminent free fchool, and a curious conduit; and on the adjacent commons, which feed multitudes of theep, there have been frequent horfe races. Here is a great trade in all manufactures of leather; and fome fpinning, which is encouraged by the clothiors of Devonfhire. On the hills of North Lefkard, and in the way from hence to Launcefton, are many mines of tin, which is caft at the blowing houfes into blocks, that are fent hither to be coined.

LesLIE, Jons, bihop of Rofs in Scotland, the fon of Gavin Leflie an eminent lawyer, was born in the year 1526, and educated at the univerfity of Aberdeen; of which diocefe he was made official, when but a youth. He was foon after created doctor of civil and canon latv ; but being peculiarly addicted to the fludy of divinity, he took orders, and became parfon of Une. When the Reformation began to fpread in Scotland, and difputes about religion ran higlh, Dr Lellie, in 1560 , diftinguifhed himfelf at Edinburgh as a principal advocate for the Romifh church, and was afterwards deputed by the chief nobility of that religion to condole with Queen Mary on the death of her hufband the king of France, and to invite her to return to her native dominions. Accordingly, after a short refidence with her majefty, they embarked together at Calais in 1561 , and landed at Leith. She immediately made hinn one of her privy council, and a fenator of the college of juftice. In 1564 , he was made abbot of Lindores; and on the death of Sinclair was promoted to the bifhopric of Rofs. Thele accumulated honours he wifhed not to enjoy in luxurious indolence. The influence derived from them, he exerted to the profperity of his country. It is to him that Scotland is indebted for the publication of its laws, commonly called "The black acts of parliament," from the Saxon character in which they were printed. At his mot earnef defire, the revifion and collection of them were committed to the great officers of the crown. In 1568 , Queen Mary having fled to England for refuge, and being there detained a prifoner, Queen Elizabeth appointed certain commiffioners at York to examine into the caule of the difpute betwcen Mary and her fubjects. Thefe commifioners were met by others from the queen of Scots. 'The bilhop of Rofs was of the number, and pleaded the caufe of his royal mifteefs with great energy, though without fuccels; Elizabeth had no intention to releafe her. Mary, difappointed in her expectations from the conference at York, fent the bifhop of Rofs ambaflador to Elizabeth, who paid little attention to his complaints. He then began to negociate a marriage between his royal mifteefs and the duke of Norfolk; which negociation, it is well known, proved fatal to the duke, and was the caufe of Leflic's being fent
to the Tower. In 1573 he was banifhed the kingdom, and retired to Holland. The two following years he fpert in fruitlefs endeavours to engage the powers of Europe to efpoufe the crufe of his queen. His laft application was to the pope; but the power of the heretic Elizabeth had no lefs weight with his holinefs than with the other Roman Catholic princes of Europe. Finding all his perfonal applications ineffectual, he had recourfe to his pen in Queen Mary's vindication; but Elizabeth's ultima ratio regum was too potent for all his arguments. Bilhop Leflie, during his exile, was made coadjutor to the archbifhop of Rouen. He was at Bruffels when he received the account of Queen Mary's execution ; and immediately retired to the convent of Guirternberg near that city, where he died in the year 1596 . It was during the long and unfortunate captivity of Mary, that he amufed bimfelf in writing the Hiltory of Scotland, and his other works. The elegance and charms of literary occupations ferved to afluage the violence of his woes. His knowledge and judgement as an hiforian are equally to be commended. Where he acts as the tranfcriber of Boece, there may be diftinguilhed, indeed, fone of the inaccuracies of that writer. But, when he fpeaks in his own perfon, he has a manlinefs, a cardour, and a moderation, which appear not always even in authors of the Proteftant perfuafion. His works are, I. Afficti animi confolationes, \&c. compoled for the confolation of the captive queen. 2. De origine, moribus, et gefis Scotorum. 3. De titulo et jure ferenifinue Marice Scotorum regince, quo regni Anglice fuccefionem fibi juftè vindicat. 4. Parcenefis ad Anglos et Scotos. 5. De illuf. fominarum in republ. adminifiranda, \&cc 6. Oratio ad reginam Elizabetham pro libertate impetranda. 7 Paranefis ad nobilitatem populunque Scoticum. 8. An account of his proceedings during his embafly in England from 1568 to 1572 ; manulcript, Oxon. 9. Apology for the bilhop of Rofs, concerning the duke of Norfolk; manufcript, Oxon. 10. Several letters, manufcript.

Leslie, Charles, a learned divine of Ireland, the time and place of whofe birth is uncertain. He was educated at Innilkilling ; and in 1664, was created fellow of Trinity-college, Dublin, where he continued till he became A.M. At the deceafe of his father he came over to England, and entered himfelf in the Temple at London. The ftudy of the law very foon difgufted him, and he turned all his attention to theology, being admitted into holy orders in 1680 . In 1687, he was chofen chancellor of the church and diocefe of Connor, at which time he made himfelf extremely unpopular by his determined oppofition to the tenets of the church of Rome. He imbibed the abfurd and pernicions doctrines of paffive obedience and non-refiftance, by which his judgement was fo much biaffed, that he refufed to take the oath of allegiance to King William and Queen Mary, at the revolution.

He was a ftrenuous champion for the caule of the nonjurors, in defence of which he publithed a work in 1692 , being an anfwer to The State of Proteflants in Ireland under the late King James's Government, written by Archbiihop King. He alfo wrote a paper called the Rehearfal, originally publifhed once a.week, and afterwards twice, in a folio half-fleet, confinting of a dialogue on the affairs of the times. It laffed during

Leliie fix or feven years. They were aitersards colleqted and publihed by an eminent writer, who obferves tha: he purfues a thread of argument in them all, againf the lawfulnefs of relitlance in any cafe whatever, ocriving the fource of government wholly from God. He wrote againt the Deits, Jews, Papifts, and Socinians, all of which be coliected together, and publified in two volumes folio, with the exception of a very illiberal piece againft the learned and pious Dr Tillotion.

The frequent viints which be paid to the courts of St Germains and Bar-le-Duc, made him obnoxious to the Britiih government, which was increafed by his " Hereditary Right of the Crown of England Afferted," of which he was the reputed author. He was fent to Bar-le-Duc by fome gentlemen of eminence, to attempt to convert the fon of James II. to the Proteftant religion, who wifhed to fee him fettled on the throne. At Bar-le-Duc he was permitted to difcharge the duties of the facerdotal office, according to the forms of the church of England, where he endeavoured, but in vain, to convert the Preiender. It is the opinion of Lord Bolingbroke, that he was ill uled by the Pretender, who not only refured to hear him himfelf, but fueltered the ignorance of his priefts behind his authority, and prohibited all difcourfe concerning religion. At the clofe of the reign of Queen Anne, when the partizans of the Pretender were ansious to promote his interell in England, Mr Leflie wrote a letter from Bar-le-Duc, in which he direlt at large on the graceful mien of the Pretender, his magnanimity of fpirit, devotion free from bigotry, application to bufinefs, ready apprehenfion, found judgement, and affability, fo that none converfed with him, who were not charmed with his good fenfe and temper. $\ln 1715$, a rath and illdigetted enterprife took place in Scotland and in the northern parts of England, in favour of the Pretender, which ultimately terminated in the difperfion of the rebels; this obliged him to quit France, and retire to Italy, whither Mr Leflie followed him, and remained in that country till the year ${ }^{1} 721$. He met with fo many difficulties and difappointments at this time, that he determined to return and die in his native country. Some of his iriends acquainted Lord Sunderland with his refolution, who generoufly promifed to protef him from the interference of government. On the arrival of Mr Leflie in England, a member of the houfe of commons waited upon his lordhip with the news; hut we are happy to inform our readers that he hat no great reafon to boaft of his reception. On Mi Leflie's return to Ireland, he died in 1722, in the month of April, at his own houfe, in the county of Monaghan.

He was undoubtedly a man of great merit and extenfive erudition, dititinguihed by his piety, humility, and integrity, among whofe works are fome matterly defences of the Chritlian religion, againf Deifts and Jews, and of the Proteflant faith againft that of the church of Rome. His opinions were rather fingular refpeating church government, but it muft be,allowed that he defended them with great ability and acutenefs.

Lesser tone, in Mufic. See Tone.
LESSINES, a town of the Auftrian Netherkands, in Hainault, feated on the river Dender, and famous for its linen manufacture. W. Long. 3. 53. N. Lat. 51. 41.

LESSONS, among ecelcfiaftical writers, portions of Lefians the Holy Scripture, read in Chrillian clumches, at the time of divine fervice.

In the ancient church, reading the Scripturcs was one part of the fervice of the catechumens; at which all perfons were allowed to be prefent, in order to obtain inlruction.

The church of England, in the choice of leffons, proceeds as follows: for the firft leffon on ordinary days, fhe directs, to begin at the beginning of the year with Genefis, and fo continue on, till the books of the Old Teltament are read over; only omisting the Chronicles, which are for the molt part the fame with the books of Samuel and Kings, and other particular chapters in cther books, either becaufe they contain manacs of perfons, places, or other matters lefs profitable to ordinary readers.

The courfe of the firt leffons for Sundays is regulated after a different manner. From Advent to Septuagefima Sunday, fome particular chapters of Ifaiah. are appointed to be read, becaufe that book contains the clearell prophecies concerning Chrith. Upon Septuagefima Sunday Genefis is begun, becaufe that book which treats of the fall of man, and the fevere judgement of God inflicted on the world for fin, beff fuits with a time of repentance and mortitication. After Genefis, follow chapters out of the books of the Oid Tellament, as they lie in order; only on feftival Sundays, fuch as Eafter, Whitfunday, \&e. the particula: hiltory relating to that day is appointed to be read; and on the faints days, the clurch appoints lefions out of the moral books, fuch as Proverbs, Ecclefiafies, Ecclefiafticus, \&c. as containing excellent infructions for the conduct of life.

As to the fecond"lefons, the church obferves the fame courfe both on Sundays and week days: reading the Gofpels and Acts of the Apofles in the morning, and the Epifites in the evening, in the order they fland in the New Teflament : excepting on faints days and holidays, when fuch leifons are appointed as either explain the myftery, relate the hittory, or apply the example to us.

LESTOFF, or Leostofs, a town of Suffolk in England, feated on the fea fhore, 117 miles north-eaft of Loudon. It is concerned in the fifheries of the North fea, cod, herrings, mackerels, and fprats; bas a church and a difeating meeting-houfe; and for its fecurity, fix 18 pounders, which they can move as occafion requires ; but it has no battery. The town confilts of 500 houfes; but the freets, though tolerably paved, are narrow. The coaf is there very dangerous for frangers.

L'ESTRANGE, Sir Roger, a celebrated writer in the 17 th century, was defcended from an ancient family, feated at Hunfanton-hall in the county of Norfolk, where he was born in 1616 , being the youngelt fon of Sir Hammond L: Eilrange, Bart. a zealous royalin. Having in $\boldsymbol{1}_{44}$ obtaincd a comnition from King Charles I. for reducing l.ynn in Norfolk, then in polfefition of the parliament, his defign was difoovered, and his perfon feized. He was tried by a court-martial at Guildhall in London, and condemned to die as a $\mathrm{f}_{\mathrm{p}}$; but was reprieved, and continued in Newgate for fome time. He afterwards went beyond fea; and in Augut $16 \leqslant 3$ returned to England, where he ap.

## L E T [ 758 ] J E T

Lefrarge plicd himelf to the protector Oiver Crmawell, and having once played before him on the bafs vicl, he was letchlade. by fone nicknamed Oliver's fiddier. Being a man of parts, mater of an eafy humorous flyle, but withal in narrow circunillances, he fet up a newfaper, under the title of The Public Intelligercer, in 1663 ; but which l.e laid down, upon the publication of the frith Lomaden gazette in 1655 , heving been allorved, howevcr. a confideration by government. Some time after the Popill plet, when the Tories began to gain the afcendant over the Whigs, he, in a paper ca!led the obferator, became a zealous champion for the former. He was afterwards knighted, and ferved in the parliament called by King Janes I1. in 1685 . But things taking a different turn in that prince's reign, in point of liberty of confcience, from what molt people expeetcd, our author's O'ferzators were difufed as not at all fuiting the times. However, he continued licenfer of the prefs till ling Willian's accettion, in whofe reign he met with fome trouble as a difaffected perfon. Howicver, he went to his grave in peace, after he had in a manner furvived his intellectuals. He publifhed a great many political tracts, and tranilated feveral works from the Greek, Latin, and Spanith; viz. Jofephus's works, Cicero's Olfices, Seneca's Morals, Erafmus's Colloquies, Æfop's Fables, and Bonas's Guide to Eternity. The character of his flyle has been varioufly repreferted; his language being obferved by fome to be eafy and humorous, while Mrr Gordon fays, "that his productions are not fit to be read by any who have talle or good breeding. They are full of phrafes picked up in the itreets, and nothing can be nore low or nauleous."

LESTWEITHEL, a town of Cornwall in England, about 229 miles difant from London. It is a well-built town, where are kept the common gaol, the weights and meafures for the whole ftannary, and the county courts. It flands on the river Foy, which brought up veffels from Fowey, before it was choked up with fand coming from the tin mines, and therefore its once flourihing trade is decayed; but it holds the bufhelage of coals, falt, malt, and corn, in the town of Fowey, as it does the anchorage in its harbour. It was made a corporation by Richard earl of Cornwall when he was king of the Romans, and has had other clarters fince. It confifts of feven capital burgefles (whereof one is a mayor), and 17 aftizants or common council. It is part of the duchy of Comwall, to which it pays inl. 19¢. iod. a year for its liberties. Its chief trade is the woollen manufa\&tory. It firll returned members to parliament in the 33 d of Edward I. They are chofen by their burgeffes and altitants. It was anciently the fhire town, and the knights of the fhire are fill chofen here.

LETCHILADE, a town of Glouceferhire, 90 miles from London, on the horders of Oxfurdfhire and Berks, and the great road to Gloucefler ; had anciently a nunnery, and a priory of black canons. In this parifh is Clay-hill. The market is on Tuefday; and it has two fairs. It is fuppofed to have been a Roman town; for a plaiin Roman road runs from hence to Ci rencefter; and by a digging in a meadow near it fome years ago, an old building was difcovered, fuppofed to be a Roman bath, which was 50 fe.t long, 40 broad, and 4 high, fupported with 100 brick pillars, curioufly
inh id with fluncs of divers colouss of tenieraic work. The Lacch, the Coln, the Churn, and Clis, whith all rife in the Coffrould hills, join here in one full it cam, and becme one river, called the Thames, which begins here to be navigable; and barges tahe in butter, cheefe, and other goods, at its quay, for London.

LETHARGY, in Medicine (from asê, oblivion, and cegraz, numbncfs, lazinefr), a difeafe conlifting of a profound drowlinels or flcepinels, from which the patient can fcarce be awaked; or, if awaked, he remains flupid, without fenfe or membry, and prefently finks ayain into his former flicep. See Mficine Index.

Letiargy, in Farriery. Sec Farriery, No 507.
LETHE, (from גurpara, "I hide or conceal"), in the ancient mythology, one of the rivers of hell, fignifying oblivion or forgetfulncfs; its waters having, according to poetic fiction, the peculiar quality of making thole who drank them forget every thing that was patt.

LE'TI, Gregorio, an eminent Italian writer, was defcended of a family which once made a confiderable figure at Bologna: Jerom, his father, was page to Prince Charles de Medicis; ferved fome time in the troops of the grand duke as captain of foot; and fetting at Milan, married there in 1628 . He was afterwards governor of Aimantea in Calabria, and died at Salerno in 1639. Our author was born at Milan in 1630, ftudied under the Jefuits at Cofenza, and was afterwards fent by an uncle to Rome, who would have him enter into the church; but he being averie to it, went to Geneva, where he ftudied the government and the religion there. Thence he went to Laufanne; and contracting an acquaintance with John Anthony Guerin, an eminent phyfician, lodged at his houfe, made profellion of the Calvinitt religion, and married his daughter. He fettled at Geneva; where he fpent almolt twenty years, carrying on a correfpondence with learned men, efpecially thofe of Italy. Some contefts obliged him to leave that city in 1679 ; upon which he went to France, and then to England, where he was rectived with great civiliny by Charles 11. who, after his firt audience, made him a prefent of a thoufand crowns, with a promife of the place of hiftoriagrapher. He wrote there the Hiftory of England; but that work not plealing the court on account of his too great liberty in writing, he was ordered to leave the kingdom. He went to Amflerdam in 1682, and was honoured with the place of hilloriographer to that city. He died fuddenly in 1701 . He was a man of indetatigable application, as the multiplicity of his works thow. The principal of thefe are, 1. The univertal monarchy of Louis XIV. 2. The Life of Pope Sixtus V. 3. The Life of Philip II. King of Spain. 4. The Life of the Emperor Claarles V. 5. The Life of Elizabeth, Queen of England. 6. The Hinory of Oliver Cromwell. 7. The Hitlory of Great Britain, 5 vols 12 mo. 8. The Hiftory of Geneva, \&c.

LETRIM, a county of Ireland. See Lemtrm.
LETTER, a character ufed to exprefs one of the fimple founds of the woice; and as the different fimple founds are exprefled by different letters, thefe, by being differently compounded, become the vifible figns or characters of all the modulations and mixtures of founds ufed to exprefs our ideas in a regular language. Sec Langeage. Thus, as by the help of fpeech we

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Letter. render our ideas audible; by the anfiftance of letters we render them vifible, and by their help we can wrap up our thoughts, and fend them to the mofl diffant parts of the earth, and read the tranfactions of different ages. As to the firf letters, what they were, who firft invented them, and among what people they were firit in ufe, there is fill room to doubt: Philo attributes this great and noble invention to Abraham; Jofephus, St Irenæus, and others, to Enoch; Bibliander, to Adam; Eufebius, Clemens Alexandrinus, Cornelius Agrippa, and others, to Mofes; Pomponius Mela, Herodian, Rufus Fellus, Pliny, Lucan, \&c. to the Phœnicians; St Cyprian, to Saturn; Tacitus, to the Egyptians; fome, to the Ethiopians; and others, to the Chinefe : but, with refpect to thefe laft, they can never be entitled to this honour, fince all their characters are the figns of words, formed without the ufe of letters; which renders it impoffible to read and write their language without a valt expence of time and trouble; and abfolutely impoffible to print it by the help of types, or any other manner but by engraving, or cutting in wood. See Printing.

There have been alfo various conjectures about the different kinds of letters ufed in different languages: thus, according to Crinitus, Mofes invented the Hebrew letters; Abraham, the Syriac and Chaldee; the Phoenicians, thofe of Attica, brought into Greece by Cadmus, and from thence into Italy by the Pelafgians; Nicoftrata, the Roman ; Ifis, the Egyptian ; and Vulfilas, thofe of the Goths.

It is probable, that the Egyptian hieroglyphics were the firft manner of writing : but whether Cadmus and the Phœenicians learned the ufe of letters from the Egyptians, or from their neighbours of Judea or Samaria, is a queftion; for fince fome of the books of the Old Teftarsent were then written, they are more likely to have given them the hint, than the hieroglyphics of Egypt. But wherefoever the Phonicians learned this art, it is generally agreed, that Cadmus the fon of Agenor firft brought letters into Greece; whence, in following ages, they fpread over the reft of Europe. See Alphabet and Writing.

Letters make the firft part or elements of grammar ; 2 a affemblage of thefe compofe fyllables and words, and thefe compofe fentences. 'The alphabet of every language confifts of a number of letters, which ought each to have a different found, figure, and ufe. As the difference of articulate founds was intended to exprefs the different ideas of the mind, fo one letter was originally intended to fignify only one found, and not, as at prefent, to exprefs fometimes one found and fometimes another ; which practice has brought a great deal of confufion into the languages, and rendered the learning of the modern tongues much more difficult than it would otherwife have been. This confideration, tosether with the deficiency of all the known alphabets, from their wanting fome letters to exprefs certain founds, has occafioned feveral attempts towards an univerfal alphabet, to contain an cnumeration of all fuch fingle founds or letters as are ufed in any language. Sce Alpuabet.

Grammarians diftinguift letters into vowels, confonants, mutes, liquids, dinhthongs, and charakteriftics. They are likewife divided jnto capital and fmall letters.

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They are alfo denominated from the thape and turn of the letters; and in writing are diftinguiflacd into dif. ferent hands, as round text, German text, round hand. Italian, \&c. and in printing, into Roman, Jtalic, and black letter.
'The term Letter, or Type, among printers, not only includes the CAPYTALS, smahi CAPITALS, and fmall letters, but all the points, figures, and other marks caft and ufed in printing; and alfo the large ornamental letterc, cut in wood or metal, which take place of the illumined leiters ufed in manufcripts. 'The letters ufed in printing are caft at the ends of fmall pieces of metal, about three quarters of an inch in length ; and the letter being net indented, but raifed, eafily gives the impreffion, when, after being blacked with a glutinous ink, paper is clofely prefled upon it. See the articles Printing and Type. A fount of See the articles Printing and TYpF. A fount of
letters includes finall letters, capitals, fmall capitals, points, figures, fpaces, \&c.; but befides, they have different kinds of two-line letters, only ufed for titles, different kinds of two-line letters, only ufed for titles,
and the beginning of books, chapters, \&cc. See Foust.
Letter is alfo a writing addreffed and fent to a perfon. See Epistly.
The art of epiftolary writing, as the late tranflator of Pliny's Letters has obferved, was efteemed by the of Pliny's Letters has obferved, was efleemed by the
Romans in the number of liberal and polite accom. plifhments; and we find Cicero mentioning with great pleafure, in fome of his letters to Atticus, the elegant
fpecimen he bad received from his fon of his genius pleafure, in fome of his letters to Atticus, the elegant
fpecimen he bad received from his fon of his genius in this way. It feems indeed to have formed part of their education; and, in the opinion of $\mathrm{Mr}_{\mathrm{r}}$ Locke, it well deferves to have a ghare in ours. "The writ. ing of letters (as that judicious author obferves) enters fo much into all the occafions of life, that no gentleman can avoid fhowing hinself in compofitions of this kind. Occurrences will daily force him to make this ufe of his pen, which lays open his breeding, his fenfe, and his abilities, to a feverer examination than any oral difcourfe." It is to be wondered we have fo fear writers in our own language who deferve to be pointed out as models upon fuch an occafion. After having named models upon fuch an occafion. After having named
Sir William Temple, it would perhaps be difficult to add a fecond. The elegant writer of Cowley's life mentions him as excelling in this uncommon talent; mentions him as excelling in this uncommon ta!ent;
but as that author declares himfell of opinton, "That letters which pafs between familiar friends, if they are
written as they thould be, can farce ever be fit to fee letters which pafs between familiar friends, if they are
written as they thould be, can farce ever be fito fee the light," the world is deprived of what no doubt would have been well worth its infpection. A laie diAinguithed genius treats the very attempi as ridiculuus,
and profeffes himfelf " a mortal cnemy to what they finguithed genius treats the very attempi as ridiculuus, call a fine letter." His averfion, however, was not fo ftrong, but he knew to conquer it when he thought
proper ; and the letter which clofes his correfondence ftrong, but he knew to conquer it when he thought
proper ; and the letter which clofes his correfpondence with Billop Atterbury is, perhass, the moft genteel and manly addrels that ever was penned to a friend in dif. grace. 'The truth is, a fine letter does not confit in
fayiag fine things, but in exprefling ordi:nary oies in an grace. The truth is, a fine letter does not confin in
faying fine things, but in expreling ordi:nary oies in an uncommon maner. It is the proprie comnunta nicere,
the art of giving grace and elegance to pamiliar occuruncommon manner. It is the proprie comnunta aicere,
the art of giving, grace and elegance to pamiliar occurrences, that conntitutes the merit of this hind of writing. Mr Gay's letter, concerning the two lovers who were fruck dead with the fanc thath of lighaning, is a matterpiece of the fort; and the feccimers hic has there 5 E given

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given of his talents for this fpecies of compofition makes it much to be regretted we have not more from the fame hand.

Of the Style of Epifolary Compofition. Purity in the choice of words, and jullnefs of confruction, joined with perfpicuity, are the ehief properties of this ftyle. Accordingly Cicero fays: "In wriuing letters, we make ufe of eommon words and expreflions." And Seneca more fully, "I would have my letters to be like my difcourfes, when we either fit or walk together, unfudied and eafy." And what prudent man, in his common difcourfe, aims at bright and flrong figures, beautiful turns of language, or laboured periods? Nor is it always requilite to attend to exact order and method. He that is mafter of what he writes, will naturally enough exprefs his thoughts without perplexity and confufion: and more than this is feldom necefiary, -fpecially in fimilar letters.

Indeed, as the fubjects of epifles are exceedingly various, they will neeeffarily require forme variety in the manner of exprefion. If the fubject be fomething weighty and momentous, the language fhould be Atrong and folemn ; in things of a lower nature, more free and eafy; and upon lighter matters, jocofe and pleafant. In exhortations, it ought to be lively and vigorous; in confolations, kind and compaflionate; and in adviling, grave and ferious. In narratives, it fhould be clear and dillinet ; in requefts, modeft; in commendations, friendly; in profperity checrful, and mournful in adverfity. In a word, the flyle ought to be accommodated to the particular nature of the thing about which it is converfant.

Befides, the different character of the perfon, to whom the letter is written, requires a like difference in the modes of expreflion. We do not ufe the fame language to private perfons, and thofe in a public flation ; to fuperiors, inferiors, and equals. No do we exprefs ourfelves alike to old men and young, to the grave and facetious, to courtiers and philofophers, to our friends and flrangers. Superiors are to be addreffed with refpect, inferiors with courtefy, and equals with civility; and every one's character, ftation, and eircumftances in life, with the relation we fland in to him, occafion fome variety in this refpect. But when friends and acquaintances correfpond by letters, it carries them into all the freedom and goodhumour of converfation; and the nearer it refembles that, the better, fince it is defigned to fupply the room of it. For when friends cannot enjoy each others company, the next fatisfaction is to converfe with each other by letters. Indeed, fometimes greater freedom is ufed in epifles, than the fame perfons would have taken in difcourfing together; becaufe, as Cicero fays "A letter does not blufl." But ftill nothing ought to be faid in a letter, which, confidered in itfelf, would not have been fit to fay in difcourfe; though modefly perhaps, or fome other particular reafon, migbt have prevented it. And thus it frequently happens in requefts, reproofs, and other circumftanees of life. A man can afk that by writing, which he could not do by words, if prefent; or blame what he thinks amifs in his friend with greater liberty when abrent, than if they were together. From hence it is caly to judge of the fitnefs of any expretion to ftand in an epiitle, only by confidering, whether the
fame way of fpeaking would be proper in talking with the fame perfon. Indeed, this difference may be allowed, that as perfons have more time to think, when they write, than when they Speak; a greater aecuracy of language may fometimes be expected in one, than the other. Huwever, this makes no odds as to the the kind of ftyle; for every one would choofe to fpeak as correctly as he writes, if he could. And there. fore all fuch words and expreffions as are unbecoming in converfation, fhould be avoided in letters; and a manly fimplicity, free of all affectation, plain, but decent and agreeable, ftould run through the whole. This is the ufual ftyle of Cicero's epittles, in which the plainnefs and fimplicity of his diction is accompanied with fomething fo pleafant and engaging, that be keeps up the attention of his reader, without fuffering him to tire. On the other hand, Pliny's ftyle is fuccinct and witty : but generally fo full of turns and quibbles upon the found of words, as apparently render it more ftiff and affected than agrees with converfation, or than a man of fenfe would choofe in difcourfe, were it in his power. You may in fome meafure judge of Pliny's manner, by one thort letter to his friend, which runs thus: "How fare you? As I do in the country? pleafantly? that is, at keifure? For which reafon I do not care to write long letters, but to read them; the one as the effect of nicenels, and the other of idlenels. For nothing is more idle than your nice folks, or curious than you: idle ones. Farewell." Every fentence here confifts of an antithefis, and a jingle of words, very different from the ftyle of converfation, and plainly the effect of ftudy. But this was owing to the age in which he lived, at which time the Roman eloquence was funk into puns, and an affectation of wit; for he was otherwife a man of fine fenfe and great learning.

LETEER of Attorney, in Law, is a writing by which. one perfon authorizes another to do fome lawful act in his ftead; as to give Jeifin of lands, to receive debts, fue a third perfon, \&c.

The nature of this inftrument is to transfer to the perfon to whom it is given, the whole power of the maker, to enable him to accomplifh the act intended to be performed. It is either general or fpecial ; and fometimes it is made revocable, which is when a bare authority is only given ; and fometimes it, is irrevocable, as where debts, \&c. are affigned from one perfon to another. It is generally held, that the poirer granted to the attonney muit be ftrictly purfued; and that where it is made to three perfons, two cannot execute it. In moft cafes, the power given by a letter of attorney determines upon the death of the perfon who gave it. No letter of attorney made by any fcaman, \&c. in any fhip of war, or having letters of marque, or by their executors, \&c. in order to empower any perfon to receive any fhare of prizes or bounty-money, Thall be valid, unlefs the fame be made revocable, and for the ufe of fueh feamen, and be figned and executed before, and attelted by, the captain and one other of the figning officers of the thip, or the mayor or chief magitfate of fome corporation.

## Leqqer of Mart or Marque. See Mardue.

Legqers Patent or Oivert, are writings fealed with the great leal of Enyland, whereby a man is authorized to do, or emioy any thing, which, of himlelf,

## L E U

## L E U

Lettuce he could not do. See Patert. - They are fo called
II by reafon of their form; as being open, with the feal Leucata. afixed ready to be fhown for the confirmation of the authority given by them.

Lettuce. See Lactuca, Botany Index; and for the cultivation of the different kinds of lettuce, fee Gardening Index.

LEVANT, in Geography, fignifies any country fituated to the eaft of us, or in the eaftern fide of any continent or country, or that on which the fun rifes.
l.evast is alfo a name given to the eatlern part of the Mediterranean fea, bounded by Natolia or the Leffer Afia on the north, by Syria and Paleftine on the eafl, by Egypt and Barca on the fouth, and by the ifland of Candia and the other part of the Mediterranean on the weft.

LEVATOR, in Anatomy, a name given to feveral mufcles. See Anatomy, Table of the Mufcles.

LEUCA, in antiquity, a geographical meafure of length in ufe among the latter Gauls; which, according to Jornandes, who calls it leuga, contained fifteen hundred paces, or one mile and a half. Hence the name of league, now reckoned at three miles; in the lower age, called leuva.

LEUCADENDRON, a genus of plants belonging to the tetrandria clafs; and in the natural method ranking under the $4^{8 t h}$ order, Aggregata. See Botany Index.

LEUCADIA, formerly called Neritis, a peninfula of Acarnania, (Homer) ; but afterwards, by cutting through the peninfula, made an ifland, as it is at this day, called St Maura.

LEUCAS, in Ancient Geography, formerly called Neritos and Neritum, a town of Leucadia or Leucas; near a narrow neck of land, or iRlumus, on a hill facing the eaft and Acarnania; the foot or lower part of the toun was a plain lying on the fea by which Leucadia was divided from Acarnania, (Livy); though Thucydides places Leucas more inward in the ifland, which was joined to the continent by a bridge. It was an illutlrious city, the capital of Acarnania, and the place of general aflembly.

LevCATA, or Leucate, in Ancient Geograply, a promontory of Leucadia, accurding to Strabo, a white rock projecting into the fea towards Ceplalenia, on which thood a temple of A pollo furnamed Leucadius. At his feftival, which was annually celebrated here, the people were secufomed to offer an expiatory facrifice to the god, and to avert on the head of the viatim all the calamities with which they might be threatened. For this purpofe, they made choice of a ciminal condemned to die; and leading him to the brink of the promontury, precipitated him into the fea amidit the loud thouts of the fpectators. The criminal, how ever, feldom perifhed in the water: for it was the cuAlom to cover him with feathers, and to fallen bird to his body, which by fpreading their wings might ferve to break tis fall. No fooner did he touch the fea, than a number of boats frationed for the purpofe flew to his affifiance, and drew lim out ; and after being thus faved, he was tanilhed for ever from the territory of Leucacia. (jtralo, lib. x. p. 452).

According to ancient authors, a flrange opinion concerang this prumntory prevaled for fome time mong ile Greeks. They imained that the lesp of

Lecucata was a potent remedy againf the violence of Leusippus love. Hence difappointed or defpairing lowere, it is faid, were often known to have come to Leucadia; and, having afcended the promontory, offered facrifices in the temple, and engaged by a formal vow to perform the defperate act, to have voluntarily precipitated themfelves into the fea. Some are reported to have recoveted from the effects of the fall ; and among others mention is made * of a citizer of Buthroton, in Epirus, whofe paffons always taking fite at new objects, he four times had recourfe to the fame remedy, and always with the fame fuccefs. As thofe who made the trial, howscver, feldom took any precaution to render their fall lefs rapid, they were generally deftroyed: and women often fell victims to this act of defperation. At Leucata was thown the tomb of Artemifia, that celebrated queen of Caria who gave fo many proofs of courage at the battle of Salamist. Inflamed with a violent paltion for a young man who inllexibly refufed her love, fte furprifed him in his fleep and put out his eyes. Regret and defpair foon brought her to Leucata, where the perifted in the waves notwithftanding every effort to fave her $\ddagger$. Such likewife was the end of the unhappy Sapplıo. For- Hepber? faken by her lover Phaon, the came hithes to feek re-ibid. lief from her fufferings, and found her death. (Menand. ap. Strab. lib. x. p. 452.

LEUCIPPUS, a celebrated Greek philofopher and mathematician; firft author of the famous fyftem of atoms and vacuums, and of the hypothefis of forms; fince attributed to the moderns. He flourithed about 428 B. C.

LEUCOG EUS, in Aacient Geography, a hill fituated between Puteoli and Neapolis in Campania, abounding in fulphur; now l'Alumtra. Whence there were alfo fprings called Leucogai fontes; the waters of which, according to Pliny, gave a firmnefs to the teeth, clearnefs to the eyes, and proved a cure in wounds.

LEUCOJUM, Great Snow-drop, a genus of plants belonging to the hexandria clafs; and in the natural method ranking under the ninth order, Spathacere. See Botany Index.

LEUCONIA, in antiquity, was a public regifer amongf the Athenians, in which were inferted the amongit the Athenians, in which were inlerted the
names of all the citizens, as foon as they were of age to enter upon their paternal inheritance.
Leucoma, in Surgery, a difemper of the eyes, other wife called albugo. See Albigo and Surgery.

LEUCOPFTRRA, in Ancient Geagraphy, fo called from its white colour, (Stralo); a promontory of the Bruttii, in the territory of Rhegium, the termination of the Apennines ; the utmoft extrenity of the Erattii, or the modern Calabria Ulira; as the Japygiam is of the ancient Calabria, or the modern Calabria Ci tra.
I.EUCOPETRI.INS, in ecclefiaftical hifory, the name of a fanatical fect which fprang up in the Greek and eaftern churches towards the clofe of the $12 \mathrm{l}_{1}$ sentury: the fanatics of this demmination pretefied to believe in a double 'Irinity, reiefted wedlock, abilaised from nefh, trented with the utonon eontempt the facraments of bartifn and the Lovi's fupper, and all the various franches of external wos hip; pliced the cifonec uf reigion in inecrnal prayer alonc ; and mait.-
, II
Leucope-
trians.

- Prolem.

Hephar, $a p$. Pbot. p. 49 .
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$\qquad$ + Herodof. ib. viii. cap. $\mathrm{s}_{7}$. Ptolem. Hepbag?. bid.
$\qquad$








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tinned.

## L E U [ 772$]$ L E V

Lonen. thincd, as it is fuid, that an evil being, or gemius,
dwelt ia the breat of evcry mortal, and coald be expellet from thence by no other method than by perpetual Cupplication to the Snpreme Being. The founder of this entiulatical fect is faid to have been a perfon called $L$ :ucsperrus, and his chiei cifciple Tychicue, who corrupted, by fanatical interpretations, feveral books of Scripture, and paricu'arly S: Matthew's Golpel.

LE[COPHLEGMATIA, in Msdicine, a kind of droply, otherwife called anafurca. See Leucopotion, Mfadicine Inder.
L. EUCOTHOE, or Leucot HEA, in fabu!oushitory, the wite of Athamas, changed into a fea deity; fee Ino. She was catied Whumea by the Romans. She had a temple at Rome, where all the people, particularly women, ofered yows for their brothers children. They did not entreat the seity to proteft their own children, becavfe Ino bad teen unfortunate in hers. No female flaves were permitted to enter the temple; or if their curionty tempted them to tranfgrefs this rule, they wese beaten with the greatef leverity. To this fupplicating for other pcople's child:en, Ovid alludes in thele lines,

> Non eamen hatic pro firpe fua pia suater adorat, Ipfa parun folix vifa fuific parens. Faft. vi.

LEUCTR $A$, in Ancient Geography, a town of Bcooti., to the wef of Thebes, or lying between Platew and Thefpiz, where the Lacedemomians had a great defeat given them by Epaminondas and Pelopidas, the Theban generals. The Theban army confificd at mof but of 6000 men, whereas that of the enemy was at lealt thrice that number : but F.paminondas trutted mofl in his horfe, wherein he had much the advantage, borh in their quality and good management; the reft he endeavoured to fupply by the difpofition of his men, and the rigour of the attack. He even refufed to fuffer any to ferve under him in the engagement, but fuch as he knerv to be fully refolved to conquer or die. He put himfelf at the head of the left wing, oppofite to Clcombrotus king of Sparta, and placed the main ftrefs of the battle there; ri,htly concluding, that if he cou!d break the body of the Spartans, which was but 12 men decp, whercas his own was 50 , the ref would be foon put to flight. He clofed his own with the facred band, which was commanded by Pelopidas; and placed bis horfe in the front. His right, from which he had drawn fo many men, he ordered to fall back, in a flanting line, as if they declined to fight, that they might not be too much expofed to the enemy, and might ferve him for a corps of referve in cafe of need. This was the wife difpofition which the two Theban generals made of thefe few but refolute forces; and which fucceeded in every part, according to their with. Epaminondas advanced with his left wing, extending it obliquely, in order to draw the enemy's right from the main body; and Pelopidas charged them with fuch defperate fpeed and fury, at the head of his batialion, before they could reunite, that their horfe, not being able to ftand the fhock, were forced back upon their infantry, which threw the whole into the greateft confufion: fo that though the Spartans were of all the Greeks the mont expert in reGovering from any furprife, yet their. .kill on this oc-
cafon eilher failed them or proved of no eflect; for Lcuetra, the Thebans, obferving the dreadful impreltion they had made on them with their horle, pufled furioully upon the Spartan ling, and opened lisir way to him with a great llaughter.

Upon the death of Cleombrottes, and fereral officers of note, the Spartans, according to cuftom, renewed the fylit with double vigour and fury, not to much to revenge his death as to recover his body, which was fuch an eftablifined point of hunour as they could not give up without the greatef difgrace. But here the Theban general wifely chofe rather to gratiiy them is that point, than to hazard the fuccefs of a lecund onfet; and left them in poffefion of their king, whilt he marched fraight againtt their other wing, commanded by Archidamus, and confifted chietly of fuch ausiliaries and allies as had not heartily engaged in the Spartan interelt: thefe were fo difcouraged by the death of the king and the defeat of that wing, that they betook themfelves to fiight, and were prelently followed by the refl of the amsy. The 'Ihebans, however, purfued them fo clofely, that they made a fecond dreadful flaughter among them; which completed Epaminondas's victory, who remained mater of the feld, and erected a trophy in memory of it. This was the conclufion of the famed battle of Leuctra, in which the Lacedemonians loft 4000 men, and the Iliebans but 300 .

LEVEL is an inftument which enables us to find a line parallel to the horizon, or concentric with the circumference of the earth, and to continue it to any difance :- to form a furface exactly level, having all its points at equal diftances from the earth's centre, or to find the difierence of afcent between feveral places for the purpofe of makirg roads, conducting water, draining low grounds, rendering rivers 1 arigable, forming canals, \&cc. \&c.

Among the great variety of inflruments which have been invented for thefe purpofes, the following are the moft important and ufeful.

Air-Lerez, that which thows the line of level by Air-level. means of a bubble of air encloled with fome liquor in a glafs tube of an indeterminate length and thicknefs, whofe two ends are hermetically fealed. When the bubble fixes itfelf at a certain mark, made exactly in the middle of the tube, the plane or ruler wherein it is fixed is level. When it is not level, the bubble will rife to one end. This glals tube may be fet in another of brafs, having an aperture in the middle, through which the bubble of air may be obferved. The liquor with which the tube is filled is oil of tartar, or aqua fecunda; thefe not being liable to freeze as common water, nor to rarefaction and condenfation, as fpirit of wine is. This application of a bubble of air was the invention of Dr Hooke.

There is one of thefe influments made with fights, which is an improvement upon that laft defcribed, and which by a little additional apparatus, becomes more commodious and exact. It confifts of an air-level, (fig. 1.) about eight inches long, and feven or eigh: lines in diameter, fet in a brafs tube 2 , with an aperture in the middle, C. The tubes are fupported by fraight ruler, a foot long; at whofe ends are fixed two fights, 3, 3, exactly perpendicular to the tubes, and of an equal height, having a fquare hole, formed by two fillets of

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Level. brals crofing each otrer at right angles, in the middle of which is drilled a reery fim:ill hole, through which a point on a level wit's the immentent is oberved. The brat tube is fanered on the ruler by means of (W) ferews; ne of which, marhed $f$, ferves to raife or deprels the tube at pleafure, for bringing it towards a level. The top of the ball and locket is rivetted to a little ruler that forings, one end whereof is fattened with a lerew to the great ruler, and at the other end has a fcrew, i , ferving to raife and deprefs the infirument when nearly level.

The influment juft deferibed, however, is fill lefs commodious than the following one; for though the holes be ever fo fnall, they will take in too great a fpace to detcrmine the point of level precifely.

The indrument alluded to conitils of an air-level, with telelcopic fights. This level (ñg. 2.) is like the latt; with this difference, that, infiead of plain fights, it carries a telefcope to determine exactly a point of level at a great ditance. The telefcope is a little brafs tube, about 15 inches long, fattened on the lame ruler as the level. At the end of the tube of the telecope, marked r , enters the little tube I , carrying the eyeglafs and a hair placed horizontally in the focus of the object glals, 2 ; which little tulse may be drawn out, or pultied into the great one, for adjufling the telefcone to different fights: at the other cnd of the telefcope is placed the object-glafs. The forew 3, is for raifng or loweriag the little fork, for carrying the hair, and making it agree with the bubble of air when the inftrument is level; and the forew 4 , is for making the bubble of air, D or E, agree with the telefcope : the whole is fitted to a ball and fucket. M1. Huygens is faid to be the firt inventor of this level; which has this advantage, that it may be inverted by turning the ruler and telefcope halt round; and if then the hair cut the fame point that it did before, the operation is jult.

It may be obferved, that one may add a telefcope to any kind of level, by applying it upon, or parallel to, the bafe or ruler, when there is occation to take the level of remote objects.

Dr Defaguliers contrived an inftrument, by which el-the difference of level of two places, which could not ers's level- the difference of level of two places, which could not
ng infru- be taken in lefs than four or five days with the belt jent.
experinent, when the thermomeser fonds at the fare height as before. The water is poorent out wh:a the indromant is carricd; which one may do conso. nientiy by means of the wooden frame, which is f.i upriglat by the three icrews, S, S, S, (hito i.) and a line and plummet $P P,($ fies. 5.) At the back part of the wonden frame, from the piece at top $K$, hangs the plummet $D$, over a brals point at $N$; Mm are brackets to make the upright board $\mathbb{K N}$ coutinus at right angles with the horizontal one at N. Fig. 6. reprefents a front riew of the machine, fuppofing the fore part of the tin weflel tranfparent; and here the brafs focket of the recurve-tube, into which the ball is forewed, has two wings at II, fixed to the boitom, that the ball may not break the tube by its cndeavous to emorge when the water is poured in as high as $g / 2$.

After the doctor had contrived this machine, be confidered, that as the tube is of a very fmall bore, is the liquor thould rife into the ball at A (fig. 3.) in carrying the inltrument from one place to another, fome of it would adhere to the fides or the ball $A$, and upon its defcent in making the experiment, fo much might be left behind, that the liquor would not bc high enough at $D$ to fhow the difference of the level: therefore, to prevent that inconveniency, he contrived a blank forew, to fhut up the hole at A , as foon as one experiment is made, that, in carrying the machine, the air in A may balance that in C, fo that the liquor thall not run up and down the tube, whatever degree of heat and cold may act upon the initrument, in going from one place to another. Now, becaufc one experiment may be made in the morning, the water may be fo cold, that when a fecond experiment is made at noon the water cannot be brought to the fame degree of cald it had in the morning; therefore, in making the firlt experiment, warm water mult be mixed with the cold, and when the water has food fome time, before it comes to be as colld as it is likely to be at the warmeft part of that day, obferve and fet duwn the degree of the thermometer at which the fpirit llands, and likewife the degree of the water in the barometer at D ; then fcresv on the cape at A , pour out the water, and carry the inftrument to the place whofe level yon: would know; then pour in your water, and when. the thermometer is come to the faine degree as before, open the fcress at top, and oblerve the liquor in the barometer.

The doctor's fale for the barometer is ten inches long, and divided into tenths; fo that fuch an inftrument will Cerve for any heights not exceeding ten feet, each tenth of an inch anfivering to a foot in height.

The doctor made no allowance for the decreafe of denfity in the air, becuufe he did not propofe this machine for meafuring mountains (though, with a proper altowance for the decrealing denfity of the air, it will do very wcll), but for heights that want to be known in gardens, plantations, and the convcyance of water, where an experiment that anfwers two or threc feet in a diftance of 20 miles, will render this a very ufeful inftrument.

Arcillery Foor Lerez is in form of a fquare, having A-tiflery its two lecrs or brameloes of an equal length; at a junc- inct-ievis. ture whereof is a little hole, whence hangs a thread

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and phmmet playing on a perpendicular line in the middle of a quadrant．It is divided into twice 45 degrees from the middle．Fig． 7.

This inllrument may be ufed on other occafions，by placing the ends of its two branches on a plane；for when the thread plays perpendicularly over the middle divifion of the quadrant，that plane is afluredly level． To ufe it in gunnery，place the two ends on the piece of artillery，which you may raife to any propofed height，by means of the plummet，whofe thread will give the degree above the level．

Carpenters and Paviers Levis，confifts of a long ruler，in the middle of which，is fitted，at right angles， another fomewhat larger．At the top of this is faftened a thread，which，when it hangs over a fiduci－ al line at right angles with the bafe，thows that this bafe is horizontal．Sometimes this level is compofed of one board．Sce fig． 8 ．

Gunners $L_{\text {EにKL }}$ ，for levelling cannons and mortars， confifts of a triangular brafs plate，about four inches bigh，（fig．9．）at the bottom of which is a portion of a circle，divided only into 45 degrees；as this num－ ber is fulficient for the highef elevation of cannons and mortars，and for giving thot the greateft range．On the centre of this fegment of a circle is fcrewed a piece of brafs，by means of which it may be fixed or fcrewed at pleafure．The end of this piece of brafs is made fo as to ferve for a plummet and index，in order to thow the different degrees of elevation of pieces of artillery． This inftrument has alfo a brafs foot，to fet upon can－ nons or mortars，fo that when thofe pieces are horizon－ tal，the inftrument will be perpendicular．The foot of this level is to be placed on the piece to be elevated， in fuch a manner，as that the point of the plummet may fall on the proper degree；this is what they call levelling the piece．

Mafons LEVEL，is compofed of three rules，fo join－ ed as to form an ifofeles triangle fomewhat like a Ro－ man A ．At the vertex of this triangle is fallened a thread，from which hangs a plummet，that pafles over a fiducial line，marked in the middle of the bafe，when the thing to which the level is applied is horizontal ； but declines from the mark，when the thing is lower on the one fide than on the other．

Plumb or Pendulum Lever，that which thows the horizontal lines by means of another line perpendicular to that defcribed by a plummet or pendulum．This inftrument，（fig．10．）confifts of two legs or branches， joined together at right angles．The branch which carries the thread and plummet is about a foot and a half long；and the thread is hung towards the top of the branch，at the point 2 ．The middle of the branch where the thread palles is hollow，fo that it may hang free cverywhere：but towards the bottom，where there is a little blade of filver，on which is drawn a line per－ pendicular to the telefcope，the faid cavity is corered by two pieces of brafs，making as it were a kind of cale，leil the wind thould agitate the thread．For this reafon the fis er blade is covercd with a glafs $G$ ，in or－ der that it may be feen when the thread and plummet play upen the perpendicular．The telefope is fatlened to the other branch of the intloument，and is about two feet long；having an hair placed horizontally a－ wol＇s the focus of the object glals，which determines the amit of the leve！．The telcfrone munt lee fited
at right angles to the perpendicular．It has a ball and focket，by which it is fixed to the foot，and was in－ vented by M．Picard．

Reflecting LevEs，that made by means of a pretty long furface of water reprefenting the lame object in－ verted which we fee erected by the eye；fo that the point where thefe two objects appear to meet is a level with the place where the furface of the water is found． This is the invention of M．Mariotte．
There is another refecting level confifting of a mir－Canfinis． ror of fteel，or the like，well polifhed，and placed a little before the object－glafs of a telefcope，fulpended perpendicularly．This mirror mult make an angle of 45 with the telefcope；in which cafe the perpendicu－ lar line of the telefcope is converted into a horizontal line，which is the fame with the line of level．This is the invention of M．Caflini．
Water LEVEL，that which fhows the horizontal line Water le． by means of a furface of water or other liquor；found vel，or ch ed on this principle that water always places itfelf robates of level．

The moft fimple water level is made of a long wooden trough or canal，whofe lides are parallel to the bafe；fo that being equally filled with water，its fur－ face fhows the line of level．＇This is the chorobates of the ancients．See Chorobata．

It is allo made with two cups fitted to the two ends of a pipe，three or four feet long，about an inch in diameter，by means of which the water communicates from the one to the other cup；and this pipe being moveable on its ftand by $m$ ans of a ball and focket， when the two cups become equally full of water，their two furfaces mark the line of level．

This inftrument，inftead of cups，may alfo be made with two thort cylinders of glafs three or four inches long，fatened to each extreme of the pipe with was or matlic．Into the pipe is poured fome common or coloured water，which thows itfelf through the cylin－ ders，by means of which the line of level is determined； the beight of the water，with refpect to the centre of the earth，being always the fame in both cylinders． This level，though very fimple，is yet very commodious for levelling at fmall difances．

De la Hire＇s level contilis of two veffels filled with De la water，and communicating with each other by means of Hire＇s le－ one or more tubes．$\Lambda$ fmall cylindrical box made of vel． thin copper or planifhed tin，and terminating below in an obtufe cone，floats in each of thefe boxes，which are kept in a vertical pofition by introducing into the cones a ball of lead or a quantity of mercury．Oue of the boves carries the object－glals；and the eye－gla＇s along with the crofs wires are faftened into the other， but in fuch a manner as to be elevated or depreffed by fliding in two grooves，in order that the axes of the lenfes may be caactly level，which is effected by mea－ furing a bafe．See Trate du Nivellement par M．Pi－ card．The inconveniences attending this inftrumont Defects in arife from the difficulty of bringing the floating eyc－De la gla！s into the fame line with the axis of the olject－re！ glafs，nnd of making the boxes fettle in fuch a pofition that dilkinct rifion may be procured through the tele－ fcope；for if the wires in the focus of the eye－glafs be out of the axis，or at the fmallell diftance from the fo－ cus of the object．glafs，the image will be both indif－ tinct and deformed．In oscer that De ！a Hine＇s level

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 vellels of tin EFG EFG filled with water. Thefe veffels are each 10 inches long, 7 inches wide, and $4^{\frac{1}{2}}$ deep, and communicate by one or nore tubes $G E$.Fig. 2. The other part is compofed of three tubes $M, M, M$, and of two boxes $L_{\text {, }} L$, enclofed on all fides, having $8 \frac{1}{2}$ inches of length, 6 of breadth, and 4 of depth, and above thele are foldered the three tubes. (Fig 1 . is a vertical fection, and fig. 2. a horizontal fection of the inftrument). 'The two outermoft tubes are telefcopes from 18 to 36 inches long, pointed in oppofite direc. tions to prevent the neceffity of turning the level, and are necellary for its adjultment and verifcation.- $A$ piece of lead weighing about two pounds is foldered to the bottom of each box $L, L$, and a weight $P$ of half a pound is made to move towards $Q$ or $R$ by the fcrew $R Q$, in order to adjuft the level by making one of the floating boxes fink deeper in the water than the other. 'This weight thould be fised to a fmall tin tube which can move eafly within the greater one, and the forew is turned by neans of a handle fimilar to that which is ufed for winding up a clock. The whole inftrument is thus covered with a cafe $a b$ to prevent the wind from agitating the water. jufting it. upon a table, and elevate one end or another by means of wedges till the interfection of the two crofs wires in the focus of the eye-glafs of one of the telefcopes feems to fall upon a very remote object, each of thefe wires being moveable by fcrews fo that their point of interlection can be varied. Then take the level out of the box $A B C D$, and invert its pofition, fo that one of the tin
boxes EF may occupy the pofition which the otlee had Le:c1before, and look through the other telefcope. It the imerfection of the wires falls upon the fame cbject, their potition is correct, and the ases of ilie telefcopes are parallel; but if it falls at a dilance from the object, the point of interfection mutt be thifted onc-half of that difance towards the object, and the fame operation repeated till the interfection of the hairs of one of the telefcopes covers the fame prinit of the object that is hid loy the interfection of the bairs of the other telefcope. When this happens, the axes of the telefcopes will be exactly parallel.

The level is then placed upon its ftand, which is fixed to the box at K , and a very remote object is exa. mined with one of the telefcopes, fo as to find the poiut of it which is hid by the interfection of the wires. The level is then inverted, and the object examined with the other telefcope. If the interfection of the wires covers the fame point of the object as before, the level is adjulled, and the object is in the line of apparent level palfing through the interfection of the wires. But if this is not the cafe, the weight $P$ towards $Q$ or towards $R$, according as the point of the object firll examined is above or below the interfection of the wires, in order to make the image of the object rife or fall one-half of the diftance between the points that are covered by the interfection of the wires in each obfervation. The operation is then repeated, till the irterfection of the wires in both telefcopes falls upon the fane point of the object, in which cafe the axes of the telefcopes will be exactly level, and the inftrument properly adjufted. It is obvious that by moving the weight $P$ from the pofition which it has when the level is adjufted, the axes of the telefcopes will be inclined to the line of the level either above or below it according as the weight is moved to one fide or another. Honce, by meafuring a bafe with a vertical object at its remote extremity, it may be eafily found how many minutes or feconds cosrefpond with a given variation in the pofition of the weight, merely by mafuring the tangents on the vertical object; fo that a feale may be engraven on the tube 'Tr which will exhibit the angles of inclination to the line of apparent lcvel, formed by the axes of the telefoopes when the weight $P$ las different pofitions.

The mercurial level lately invented by the ingenious $K$ eith's Alexander Keith Ef. of Raveliton, is founded on the mercurial ' fame principle as the levels of De la Hire, Couplet, and le Deparcieux, with this difference, that mercury is employed inflead of water. A fection of the mercurial level is reprefented in fig. 3 . where $\mathbf{A}, \mathbf{A}$ are two oblong fquare cavities communicating by means of the channel MN. BB are two grooves hollowed out of the wood which contain the fights $\mathrm{D}, \mathrm{D}^{\prime}$, fig. \&. when the inftrument is not in ule. The fight D has a fmall hole in it, and the other is furninged with a crofs hair. They are fixed into two pieces of ivory or hard wood, which are nearly of the fame form as the cavities $\Lambda, A$, but a little fmaller, fo that they may go into thefe cavities without touching the fides. A quantity of mercury is then introduced into the communicating veffels A, A till they are about half full. The two fights are then placed in the cavities, and hoat on the horizontal furface of the mercury; confequently (HYDRODYN:i uncs, art. 34,37 ) if the lights be of the fame dinaenfion and weight, a lime joining the crofs hair in $\mathrm{D}^{\prime}$ and the
fnall hole in $D$ will be level or parallel with the horizontal furface of the mercury. The inftrument completely fitted up is reprefented in fig. 5. where $D, D^{\prime}$ aic the fights, $D$ being the fight to which the eye is applicd. When there is a ftrong wind the level is co-vered with a cale, in which two holes are left oppofite to the fights.- The preceding level might be improved 1 y making the crofs hair move up and down with a forew, and by engraving a fcale on the fide of the fquare aperture at $D^{\prime}$, whofe divifions being fubdivided by a fcale on the circumference of the nut that moves the fcrew, would indicate to great accuracy the angle of inclination.
The following mode of conftructing a level upor a new priaciple has occurred to the writer of this article. Let AB be a reflecting furface either of glafs or water, and let MN be a ftraight ruler heldabove this furface; thus it fo!lows from optical principles that the line MN will be perpendicular to the plane $A B$ when the object MN and its image $\mathrm{NM}^{\prime}$ appear in the fame ftraight line to an eye placed at M. Hence, by the bye, we may afcertain the error of a fquare, by placing onc of its fides upon the furface of a looking glafs, and applying the cye to its extremity M ; for if it is inaccurate, the image of the fide MN will form an angle with MN, thus if $m \mathrm{~N}$ be the fide of the fquare, its image will be $\mathrm{N} m^{\prime}$. -Now let VV be a veffel containing either water or mercury, and let VV be the furface of the fluid. This vefiel muft be firmly connected with the bafe CD and alfo with the vertical plane EF (perpendicular to CD) by means of the crofs bars $a b, c d$. The telefcope AB is faftencd to MN, another plane which rifes perpendicular to the plane EF, and the plane MN is fo connected with EF by means of [crews, that its fide MN may be made to vary its angle with the horizon, in any direction. The veflel VV, therefore, and the planes $E F, C D$ romain fixed, while the telefcope $A B$ and the plane MN can vary their pofition relative to the other parts of the level. The telefcope $A B$ hould be fo conftructed as to anfwer the purpofe of two telefcopes. It has an object-glafs both at A and B , and alfo an eyeglafs with crofs wires at A and B ; and thefe are fo fitted into the tube that when the ege is applied to the end B , the object. glafs at B , and the eye-glafs at A with its crofs hairs, may be turned to one fide fo as to have diftinct vifion with the remaining eye-glafs at $B$ and the object-glafs at A. When the eye is applied to A, the eye-glafs at $B$ and the object-glafs at $A$ are moved out of the axis of the telefcope for the fame reafon. This contrivance is for the purpofe of avoiding the neceffity of having two telefcopes. The crofs hair in the focus of cach eye-glafs muft be made capable of varying their pofition, fo that the point of interfection may be flifted for the purpoles of adjuftment.

In order to adjuft the inftrument, place its bafe CD, upon a table, and move the telefcope of the index MN till the image $N^{\prime} M^{\prime}$ is in the fame diraight line with MN. Tlen look through the extremity $B$ at a diflant object, and mark the point of it which is covered by the interfection of the wires. Infert the whole inftrument fo that the end A may be at B, adjuft the index MN as before, and look through the telefcope at the fame objec. If the interlection of the wires falls upon the fame point of the object as formerly, the inftrument is properly adjufied. But if not, the interfection of the
crofs wires in onc of the cye-pieces muft be varyed, as in the adjuitment of Deparcicux's level, till it covers the fame pcint of the object that was covered at the firft obfervation. When this happens, the infrument is duly adju!ted, and may be uled by placing the bafe CD upon a itand, and adjufting the index MN; for when this is done, the axis of the telefcope will be in a line accurately horizontal.

LeVEL of AIr Huygens's invenzion, confifts of a tele- Huygen fcope a, (fig. II.) in dorm of a cylinder, going through a ferril, in which it is faflened by the middle. This ferril has two flat branches $b b$, one above, and the other below : at the ends whereof are fattened little moving pieces, which carry two rings, by one of which the tclefcope is fufpended to an hook at the end of the fcrew 3, and by the other a pretty heavy weight is fulpended, in order to keep the telefcope in aguilibrio. This weight hangs in the box 5 , which is almott filled with linfeed oil, oil of walnuts, or other matter that will not eafily coagulate, for more aptly fettling the balance of the weight and telefcope. The inftrument carries two telefcopes clofe and parallel to each other; the eye-glals of the one being againft the ob-ject-glafs of the other, that one may lee each way without turning the level. In the focus of the objectglafs of cach telefcope muft a little hair be ftrained horizontally, to be raifed and lowered as occafion requires by a little fcrew. If the tube of the telefcope be not found level when fufpended, a ferril or ring, 4 , is put on it, and is to be flid along till it fixes to a level. The hook on which the inltrument is hung is fixed to a flat wooden crofs; at the ends of each arm whereof there is a hook ferving to keep the telefcope from too much agitation in ufing or carriage. To the faid flat crofs is applied another hollow one, that ferves as a cale for the indrument; but the two ends are left open, that the telefcope may be fecured from the weather and always in a condition to be ufed. The foot of this inflrument is a round brafs plate, to which are faftened three brafs ferrils, moveable by means of joints whereon are put ltaves, and on this foot is placed the bos.

Fig. 12. marked I, is a balance-level ; which being fufperded by the ring, the two fights, when in cequilibrio, will be horizontal, or in a level.

Spirit-Level. The moft accurate levelling inftru-siffon's ${ }^{20}$ pi ment, and that poffeffed of the greateft effential ad-rit-level vantages in ufe, is the firit-level; which was firft conftructed by Mr Siffon, and to which fome fmall additions and improvements have been funce made. The following is a defcription of one of the beft of thefe levels, as made by the principal mathematical infirument makers.

Fig. ${ }^{3} 3^{\circ}$ is a reprefentation of the inflrument mount. Alams's ed on its complete flaves. The telefcope, ABC, is made Grapbical from 15 inches to two fect in length, as may be required. Efays. It is achromatic, of the belt kind, and fhows the objects crect. In the focus of the eye-glaffes are exceedingly fine crofs wires, the interfection of which is evidently flown to be perfectly in the axis of the tube; for by turning it round on its two fupporters DE , and looking through the telefcope, the interfection of the wires will conftantly cut the fame part of the object viewed. By turning the fcrew $a$ at the fide of the telefcope, the object glafs at $g$ is moved; and thus the telefcope is exact-

## L E V - [7フ7] I. E 「

Level. ly adapted to the eye. If thefe crofs wires are at any time out of their adjultment, which is ditcowered by their interfection not cutting the fame part of the objeet during the revolution of the telefcope on its axis, they are eatily adjufted by means of the four ferews $b b b$, placed on the telelcope about an inch from the end for the eye. Thefe forcws act in perpendicular directions to one another, by unfcrewing one and tightening the other oppolite to the wire, fo that if connected with it, it may be moved either way at pleafure ; and $i: 1$ this manner the cther wire perpendicular to it may be moved, and thus the interfection of the wires brought exactly in the axis of the tube.

To the telefcope is fixed, by two fmall fcrews $c c$, the level tube containing the firits, with a fmall bubble of air: This bubble of air, when the inftrument is well adjufted, will fettle exactly in the fame place, in or near the middle of its tube, whether the telefcope be reverfed or not on the fupporters, which in this cafe are kept unmoved.

It is evident, that the axis of the telefcope, or the interfection of the wires, as before fhown, mult in this cafe be truly lerel. In this eafy mode of adjuftement confifts the improvement of the inftrument; and it is hereby capable of being adjufted by only one ftation and one object, which will at the fame time determine it to be in a true level. If by change of weather, accident, or any other caufe, the inftrument fhould have loft its level or adjultment, it may thus be readily reftored and readjufted at the firft flation; which is an advantage poffeffed by none of the inftruments formerly made. The two fupporters DE , on which the level refts and turns, are thaped like the letter Y. The telefcope refts within the upper part of them; and the inner fides of each of thefe Y's are tangents to the cylindric tube of the telefcope, which is turned to a true cylinder, and each touches it only at one place.

The lower ends of thefe fupporters are inferted into a ftrong brafs plate FE, fo as to fand perpendicularly on it. One of thefe is kept faft by a tightening forew $G$, and to the other is applied a fine threaded forew H, to adjuft the tube, when on its fupporters, to a true level. To the fupporter D is fometimes applied a line of tangents as far as 12 degrees, in order to take an angle of depreffion or elevation to that extent. Between the fupporters is alfo fometimes fixed a compafsbox $I$, divided into 360 degrees, and again into four $90^{\circ}$; having a centre pin and needle, and trigger, at $d$, to throw off the needle from the centre when not ufed; fo as to conflitute a perfect circumferentor, connected with all the foregoing improvements. This plate is fixed on a conical brafs ferrule K , which is adapted to the bell-metal fruftum of a cone at top of the brafs head of the flaves, having a ball and focket, with three bellmetal joints, two ftrong brafs parallel plates LL, four fcrews eeee for adjufting the horizontal motion, a regulating ferew M to this motion, and a faftening fcrew N to tighten it on the cone when neceffary. The faltening forew N , and the regulating ferew M, by which the whole inftrument is moved with accuracy through a fmall fpace in a horizontal direction, was an addition of Mr Kamiden's.

The manner of adjufling the foirit level at the fref fia-tion.-The whole level being now placed tleadily on its Staves, it muft be rendered parallel to the axis of the

Vor. XI. Pars II.
telefcope before you adjuft the horizontal mation. Fior leri\%. this purpofe the telefcope mull be placed in a lise with $\underbrace{-}$ two of the ferews $e$ e, and then lewelled by thefe till the bubble of air in the fpint-tube kecps its purition in the middle, while turnci about to three points, making nearly right angles at the centre to one another.

The horicuntal motion being thus adjulted, the rims ff of the Y's are to be opened, the telefcope taken off and laid the contraty way upon the fuppurters. If the bubble of air then refts exactly the lame, the level and telefcope are adjufted rightly to one anoticr; but if the bubble does not remain the fame, the end to which the air bubble gocs muft be noticed, and the dilance of it from the telefcope altered; correeting one hall the error by the ferews $c c$, and the other half by the ficrewse.

Now the interfection of the wires bcing direated to any diftant object, it may be one of the vanes of the ftaves hereafter defcribed: if they continue to be againft it precifely while the telefcope is turned round on its Y's, it proves, as before mentioned, that the axis of the telefcope coincides with the interlection of the wires, and that the inftrument will give the true level direction.

The operation of levelling being of a very accurate and important nature, and the beft inftrument when out of its adjuftment being of little ufe, it is quite neceflary that every perfon ufing fuch an inltrument fhould have it readily in his power to correct it; and the one above deferibed appears to be the beft adapted for that purpole of any hitherto contrived.

## Theory of the Spirit Level.

Let ABC, fig. 3. be a veffel of glafs hermetically fealed, its apper furface $A B C$ being the arch of a circle whofe centre is $O$. This veffel contains a quantity of fpirit of wine or alcohol, whofe level or furface is NEN. The line VOT interfecting the arch $\mathrm{N} n$ in B , and extending to T, which is fuppofed to be the centre of the earth. Therefore, (HyDRODYNanics, art. 36.) the furface $\mathrm{NE}_{n}$ is the arch of a circle whofe centre is T . XYZ is a right line fixed with refpect to the radius $B$, and confequently with regard to the velfel ABCD. Now let the radius $\mathrm{O} n=r \mathrm{~T} n=\mathrm{R}$, and the arch $\mathrm{B} b$ $=n$.

In the prefent fituation of the vefiel the vertical line VT coincides with the radius BO ; but if the pofition of the veffel is altered till BO takes the fituation $b_{o}$, it will then make with VT an angle $\mathrm{Oe}^{\prime} \mathrm{l}$, which we thall fuppofe $\mathbf{1}^{\prime \prime}$, and which may be fuppofed equal to the angle $\mathrm{O} b \mathrm{~T}$, as BT may be conidered as parallel to $b \mathrm{~T}$. The angle XVT will now become $\mathrm{X}^{\prime} \mathrm{V}^{\prime \prime} \mathrm{T}$, and will vary by a quantity equal to $\mathrm{O} b^{\prime} \mathrm{T}$ '. Thein by taking $\mathrm{NN}^{\prime}$, and $n n^{\prime}$ equal to $\mathrm{B} b$, the points $\mathrm{N}^{\prime}$ and $n^{\prime}$ will be determined, which in the new polition of the veffel become the points in which the fuperior furface of the fluid meet the arch ABC .

Now, calling the angle BT $b=\varphi$, we have (Euclid, book i. prop. 3 2.) $\mathrm{BO} b=p+t^{\prime \prime}$, and $\phi+\mathrm{t}^{\prime \prime}: p=$ $b \mathrm{~T}: b \mathrm{O}=\mathrm{R}: r$, confequently $r=\frac{\mathrm{R} p}{\hat{p}+\mathrm{t}^{\prime \prime}}$, and fubilituting infead of $t^{\prime \prime}$ and $p$ ares of the fame value, having unity for radius, the product $R p$ will be equal to the arc Ef, for which we may take $B b$ or $m$; and ${ }_{5} \mathrm{~F}$
funce

Plate CcxcIV.
$0.0000048+8137$, we thall have
$r=\frac{m}{0.000004848137+\phi}=\frac{m}{0.020004848137}$, for BO will be very fmall compared with ET, and therefore the angle ETe may be neglected in relation to the angle $\mathrm{O} e \mathrm{~T}$.

Let us fuppofe for the fake of example that $B b$ or its equals $\mathrm{NN}^{\prime}, n n^{\prime}$, is one-tenth of an inch or 0.0083333 of a foot, thus we farll have the length of the radius BO or $r=\frac{0.028333333}{0.02003448137}=1736$ feet nearly; thus a derangement of the veffel ABC which makes the radius BO , or the line XZ , vary a minute of a degree, will make each of the points $\mathrm{N}, n$ defcribe a fpace of 60 tenths or 6 inches, along the arc ABC, that is the fame face which the extremity of a plumb line 1736 feet long, would defcribe when it moved through one misute of a degree. Hence we are able to render extremely fenfible the fmalieft changes of pofition in the line $X Z$. The vefel $A B C$ is nothing more than a fpirit level, the line XZ reprefenting the axis of the telefcope which is attached to that inllru-

Plate CCSCiI. ment, as fhewn in fig. 13 . where $c c$ is the level, and CA the telefcope. The glais veffel, which is ground in the infide fo as to be a portion of a circle of confiderable radius, is almoft entirely hid by the cylinder of brafs which contains it, excepting a fnuall part which appears in the centre of the cylinder; and the inftumient mult be fo adjufted that when the bubble of air is in the middle of the glafs tube, the axis of the telefoope, the line XZ, is truly horizontal.

From thefe remarks, it would feem that a firit level will meafure fruall angles with the fame accuracy as a fector whofe radius is equal to BO, fig. 3. the radius of the curvature of the glads tube or of a plumb line of the fame length; but there are fome caufes which dinninifh its accuracy. When the bubble of air has been brought to the centre of the glafs tube, and when the tube, after being deranged, is brought to the very fame pofition, we cannot be fure that the bubble of air will return to the very centre of the tube. This irregularity is produced by the friction of the included Huid againft the fides of the tube, and depends on the magnitude of the bubble and the quantity of fluid. In a good level, where the bubble moves about five lines for a minute of inclination, this uncertainty does not exceed half a line, which may be afcertained by puiuting the telefcope to any object. The coincidence of a plumb line with a particular mark will, on account of the infenfible ofcillation of the thread, leave an uncertainty of about $\frac{x}{50}$ of a line, that is, about double the uncertainty which is left by the index of a fellor, which may be eftimated at about 100 dth of a line. But the radius of a tube, whofe bubble moves five lines for a minute of inclinatirs, will be found by a preceding formula to be about ${ }^{5} 58$ feet; and therefore to know the length of a plumb line which will give the fame precifion, vee have $\frac{1}{5}: \frac{1}{50}$ $=3.5: 14.32 \mathrm{fcct}$, the length required.

Levels are commonly made of glafs tubes in the flate they are obtained at the glafs-houfe. Of thele the ftaighteft and moft regular are feltected and examined, by filling them nearly with fpirit of wine, and afcertaining by trial that fide at which the bubble moves moft regularly, by equal inclinations of the inftrument upon a flage, called the bubble trier, which is provided with a micrometer fcrew, for that purpofe. The mont regular fide is chofen for the upper part of the inttrument, the others being of little confequence to its perfection. Spirit of wine is ufed, becaufe it does not freeze, and is more fuid than water. Ether is better, becaufe fill more fluid (A). The tube and the bubble muft be of confiderable length. The longer the bubble, the more fenfible it is to the fmalleft inclination. A very fmall bubble is fcarcely fentible, appears as if attached to the ghafs, and moves but flowly.

In the ufe of a level of this kind, conftructed by S:eur Langlois, it was remarked, that whena it was properly fet, in the cool of the morning, it was no longer fo in the middle of the day, when the weather became hot ; and that when it was again reatified for the middle of the day it became faife in the evening, after the heat had diminithed. The bubble was much longer in cold than in hot weather, and when longer it was too much fo, and could not be kept in the middle of the tube, but flood a little on the one or the other fide, though the inclination was precifely the fame. Thefe defects were fmall, and fuch as claim the notice of careful obfervers only; but they appeared of too much confequence not to produce a wih to remedy them. It was obferved, that they arofe from irregularities in the interior furface of the tube; and by examining a great number of tubes, felected for levels of the lame kind, there was reafon to conclude that all thefe levels would have more or lefs of the fame defects, becaule there was not one tube of a regular figure rithin. They were at beft no otherwife cylindrical than plates of glais from the glafs houfe can be faid to be plane efore they are ground. The irregularities were eafily difcernable.

It was therefore concluded, that it would be advifeable to grind the inner furfaces of the tubes, and give them a regular cylindrical or rather findle form, of which the two oppofite fides thould correfpond with portions of circles of very long radius. To accomplifh this, a rod of iron was taken, of twice the length of the glafs tube, and on the middle of this rod was fixed a flout tube of copper (cuivre) of the fame length as the tube of glafs, and nearly equal in diameter to the bore. The rod was fised betiveen the centres of a lathe, and the glafs gently rubbed on the copper cylinder, with fine emery and water, caufing it to move through its whole length. The glafs was beld by the middie, in order that it might be equally ground, and was from time to tine flifited on its asis, as was alfo the copper cylinder, in order that the wear might be everywhere alike. The operation had fcarcely commenced, before
(A) If the ether be nut well reftified, it is fubject to two great inconveniences in this ufe. If the tube be very 1lightly agitated, the ether divides itfelf into feveral bubbles, which employ a confiderable time before they unite. In the fccond place, as this ther is decompofed in the courfe of time; it depofits very fmall drops of cil, which adleere to the tuive, fop the motion of the bybble, and render the level wely faulty. The cther is befides more fluid when rectified and freed from a faponaceous matter which caufes its bad effects.

## L E V

Level. before the tuhe broke; and fereral others experienced the lame misfortune, though they had been well annealed. It was fuppored that the emery which became fixed in the copper might contribute to fyllit the glafs, eacls grain continuing its impreflion with the fame point, in the fame right line, which in fome inflances might be as well difpofed to cut the glafs as diamond. A cylinder of glafs was fubstituted inftead of the copper, and the emery rolling it felf on the furface of the laft, inftead of fixing itfelf, had better fuccefs; fo that every part of the circumference of the tube and the cylinder touched eacli other through their whole length. The fame operation was coantinted, uling fincr and finer emery to fmooth the tube, and prepare it for polihing ; after which the tube and cylinder having been well wathed, thin paper was pated round the cylinder, and the paper was rery equally covered with a fmall quantity of Venice tripoli." The tube was then replaced and rubbed as before, till it had acquired a polifh.

A level thus ground, may be either of the proper fenfibility, or be too much or too little fenfible. It will be too fluggith, if before grinding, exclufive of the iriegularities of the tube, its diameter thould much exceed in the middte of the length the diameter of the extremities; or it will be too fenfible if this diameter thouid not fufficiently exceed the other ; or lafty, if the middle diameter be fmaller than that of the extremes, the bubble will be incapable of continuing in the middle, but will, in every cafe, either run to one or the other end, or be divided into two parts.
To correst thefe defects, and to give the infrument the required degree of peifection, it is proper to examine its figure before the grinding is entirely finifhed. For this purpofe, afier cleaning it well, a fufficient quantity of firit of wine mult be put into it; and fecuzed by a cork at each end. The tube mult then be placed on the forks or $Y$ 's of a bubble trier, and its fenfibility, or the magnitude and regularity of the face run over by the bubble by equal changes of the micrometer forew, muft be afceitained. If the run or fpaces pafied over be too great, they may be rendered fraller by grinding the tube on a fhorter cylinder; but if they be too fhert, they may, on the contrary, be enlarged, by grinding on a longer cylinder. It is neceffary, therefore, to be provided with a number of thefe cylinders of the fame diameter, but of different lengths, which it is advifeable to bring to a firlt figure, by grinding them in a hollow half cylinder of brafs. By means of thefe it will be eafy to regulate the tube of the level to any required degree of fenfibility, after which the tube may be very quickly fmoothed and polilied.

The le:el which was thus ground is one foot in length; and the cylinder on which it was firf worked is of the fame length. When it was finified it was found to be too fenfible. It was therefore worked on another cylinder of between nine and ten inches long, which diminilled its fenfibility fo far, that the bubble, which is nine inches and four lines loyg, at the tempesature of $16^{\circ}$ of Reaumur above freezing, is carried from the middle of the tube exactly one line for every $f$ rond of a degree of inclination. This degree of fenfilility was thought fuficient; but any greater degree wirich may be required may be obtained by the procels here defcribed.

It may be remarked that a glafs tube is very fubject to ce fplit by grinding its inmer furface; the fame tube
will not be endangered by grinding its cxiernal furface Levelling even with coarfe emery; and when once the poilla of the infide is ground oft, the danger is over, and conter emery may be ufed without fear. thick glafs is more fuoject to this misfortune than thinner. The coarfelt emery made ufe of in grinding the tube here fpoken of was fufficiently fine to employ one minute in defcending through the height of three inches in water.

LEVELLING may be defired, the art which in fructs us in finding how much higher or lower any given point on the lurface of the earth is thati another; or, in other words, the difference in their diftance from the centre of the earth.

The practice of levelling therefore confifts, r. In finding and marking two or more points that thall be in the circumference of a circle whofe cenise is that of the earth, 2. In comparing the points thus found with other points, to afcertain the diference in their diftances from the earth's centre.
With regard to the theory of levelling, we muft obferve that a plumb line, hanging frecly in the air, points directly towards the centre of the earth; and a line drawn at right angles, crofing the direction of the plumb line, and touching the earth's furface, is a true level only in that particular $f_{\text {pot }}$; but if this line which croffes the plumb be continued for any confiderable lengtr, it will rife above the earth's furface, and the apparent level will be above the true one, becaufe the earth is globular; and this rifing will be as the fquare of the ciflance to which the faid right line is produced ; that is to fay, however much it is railed above the earth's furface at one mile's difance, it will rife four times as much at the dillance of two miles, nine times at the diftance of three, \&c. This is owing to the globular figure of the earth; and this rifing is the difierence betwist the true and apparent levels; the real curve of the earth being the true level, and the tangent to it the apparent level. Hence it appears, that the lefs diftance we take betwixt any two flations, the truer will be our operations in levelling; and $\mathrm{fo}_{0}$ foon does the difference betwixt the true and apparent levels become perceptible, that it is neceflary to make an allowance for it if the difance betwist the two fations excceds two chains in length.

Let BD, fig. 4. be a fmall portion of the earth whole Difference centre is $A$, then (Hydrodycamics, art. 36.) all the between points of this arch will be on a level. But a horizontat the appaline BC meeting the vertical line AI ) in C , will be thic true levelo apparent level at the point B ; and therefore DC is the Plate difference between the apparent and true level at the ciciciv. poim $B$. The dillance $C D$, the efore, mult always te deduated from the obferved heights, before we cas have the true differences of level, or the difficence between the diflances of two points from the furface of the earth, or from the centre of curvature A.

In order to find an expreffion of DC, we have (Eu clid, book i. prop. 47.) $\overline{\mathrm{AC}}=\overline{\mathrm{A}} \mathrm{B}^{2}+\overline{\mathrm{C} \overline{3}^{2}}$, and calling $A \mathrm{~B}=\mathrm{R}, \mathrm{BC}=m$, and $\mathrm{CD}=x$, and cunfidering that $\Delta \mathrm{C}=\mathrm{R}+x$, we have the equation $\mathrm{R}^{2}+2 \mathrm{R} x+x^{2}$ $=m^{2}+\mathrm{R}^{2}$. But as the value of the arc D B is always fufficiently finall, that CD may be resarded as futiciently fmall when compared wihh $A D$ or $A B$, we may fafely confider $x^{2}$ as nothing in the precedi $g$ equation, which is that cafe becomes $x=\frac{m^{3}}{2 \mathrm{R}}$. The

Levelling. mean value of $R$ may be confidered as 19630764 feet, and therefore the value of $x$ may be deduced from the equation $x=\frac{m^{2}}{2 \times 19630764}=\frac{m^{2}}{39261528}, m$ being expreffed in feet. Hence it is obvious, that the deprefs of the true level is as the fquare of the diftance; and if this diftance be 6000 feet, we fhall have $x=0.91698$ of a foot $=11$ inches.

The preceding formula fuppofes the vifual ray CB to Levellin be a ftraight line; whereas, on account of the unequal denfities of the air at different diftances from the earth, the rays of light are incurvated by refraction. This effeet has been confidered in the following table, which contains the difference between the apparent and true level, both when the refraction of the atmofphere is omitted, and taken into account.

Table 乃bewing the Difference between the True and Apparent Levels, whether taking the Terrefirial Refraction into account or not, and marking the Errors that arife when this Refraction is omitted.

| Diftance in feet. | Elevation of the apparent level above the true level expreffed in feet. |  | $\text { Diference be- } \begin{gathered} \text { tween the } \\ \text { twoelevations. } \end{gathered}$ | Diftance in feet. | Flevation of the apparent level above the true level expreffed in feet. |  | Difference between the twoelevations |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\left\|\begin{array}{c}\text { Vo allowance } \\ \text { made for ter- } \\ \text { reftrial refrac- } \\ \text { tion. }\end{array}\right\|$ | Allowance made for terreftrial refrac. tion. |  |  | No allowance made for terreftrial refraction. | Allowance made for terreftrial refraction. |  |
| 300 | 0.0023 | 0.0020 | 0.0003 | 6300 | 1.0000 | 0.8571 | 0.1429 |
| 360 | 0.0035 | 0.0030 | 0.0005 | 6600 | 1.1088 | 0.9504 | 0.1584 |
| 420 | $0.004^{6}$ | 0.0040 | 00006 | 6900 | 1.2141 | 1.0407 | 0.1734 |
| 480 | 0.0058 | 0.0050 | 0.0008 | 7200 | 1.3200 | 1.1314 | 0.1886 |
| 540 | 0.0075 | 0.0064 | 0.0011 | 7500 | 1.4323 | 1. 2277 | 0.2046 |
| 600 | 0.0092 | 0.0081 | 0.0011 | 7800 | 1. 5492 | 1.3279 | 0.2213 |
| 720 | 0.0133 | 0.0114 | 0.0019 | 8400 | 1.7963 | 1.5397 | 0.2566 |
| 840 | 0.0179 | 0.0154 | 0.0025 | 9000 | 2.0625 | 1.7678 | 0.2947 |
| 900 | 0.0208 | 0.0178 | 0.0030 | 9600 | 2.3466 | 2.0257 | 0.3209 |
| 960 | 0.0237 | 0.0205 | 0.0032 | 10200 | 2.6487 | 2.2989 | $0.349^{8}$ |
| 1080 | 9.0295 | 0.0253 | 0.0042 | 10800 | 2.9699 | 2.5456 | 0.4243 |
| I 200 | $0.037^{\circ}$ | 0.0317 | 0.0053 | 11400 | 3.3090 | 2.9363 | 0.4727 |
| 1320 | 0.0445 | 0.0482 | 0.0063 | 12000 | 3.6667 | 3.1431 | 0.5236 |
| 1440 | 0.0527 | 0.0451 | 0.0076 | 12600 | 4.0422 | 3.4648 | 0.5774 |
| 1500 | 0.0579 | 0.0496 | 0.0083 | 13200 | $4 \cdot 4363$ | 3.8029 | 0.6334 |
| 1560 | 0.0625 | 0.0536 | 0.0089 | 13800 | 4.8489 | 4.1562 | 0.6927 |
| 1680 | 0.0723 | 0.0620 | 0.0103 | 14400 | 5.2800 | 4.5258 | 0.7542 |
| 1800 | 0.0827 | 0.0709 | 0.0118 | 15000 | 5.7292 | 4.9107 | 0.8185 |
| 1920 | 0.0937 | 0.0803 | 0.0134 | 15600 | 6.1967 | 5.3115 | - 8852 |
| 2040 | 0.1059 | 0.0908 | 0.0151 | 16200 | 6.6823 | 5.7277 | 0.9546 |
| 2100 | 0.1128 | 0.0967 | 0.0161 | 16800 | 7.1865 | 6.1597 | 1.0266 |
| 2160 | 0.1180 | 0.1012 | 0.0168 | 17400 | 7.7089 | 6.6076 | 1.1013 |
| 2280 | 0.1325 | 0.1136 | 0.0189 | 18000 | 8.2500 | 7.0714 | 1.1786 |
| 2400 | $0.147^{\circ}$ | 0.1260 | 0.0210 | 18600 | 8.8090 | 7.5506 | 1.2584 |
| 2520 | 0.1620 | 0.1403 | 0.0217 | 19200 | 9.3366 | 8.0456 | 1.3410 |
| 2640 | 0.1777 | 0.1523 | c. 02.54 | 19800 | 9.9826 | 8.5565 | 1.4261 |
| 2700 | 0.1875 | 0.1607 | 0.0268 | 20400 | 10.6105 | 9.0947 | $1.515^{8}$ |
| 2760 | 0.1944 | 0.1667 | 0.0277 | 21000 | 11.2292 | 9.6250 | 1.6042 |
| 2880 | 0.2112 | 0.1810 | 0.0302 | 21600 | 11.8796 | 10.1825 | 1.6971 |
| 3000 | 0.2292 | 0.1964 | 0.0328 | 22200 | 12.5491 | 10.7564 | 1.7927 |
| 3120 | 0.2483 | 0.2128 | 0.0355 | 22800 | 13.2367 | 11.3457 | 1.8910 |
| 3240 | 0.2674 | 0.2306 | 0.0367 | 23400 | 13.9421 | 11.9504 | 1.9917 |
| 3300 | 0.2772 | 0.2376 | 0.0396 | 24000 | 1 4.6667 | 12.5714 | 2.0953 |
| 3360 | 0.2876 | 0.2465 | 0.0411 | 24600 | 15.4091 | 13.2078 | 2.2013 |
| 3480 | 0.3084 | 0.2644 | 0.0440 | 25200 | 16.1701 | 13.8601 | 2.3100 |
| 3600 | c. 3299 | 0.2827 | 0.5472 | 25800 | $16.9+9^{\circ}$ | $14.527^{8}$ | 2.4212 |
| 3900 | 0.3871 | 0.3 .318 | 0.0553 | 26400 | 17.7465 | 15.2113 | 2.5352 |
| 4200 | 0.4490 | 0.3849 | 0.0641 | 27000 | 18.5625 | 16.9107 | 2.6518 |
| 4500 | 0.5156 | 0.4420 | 0.0736 | 27600 | 19.3964 | 16.6255 | 2.7709 |
| 4800 | 0.5868 | 0.5030 | 0.0838 | 28200 | $20.249+$ | 17.4506 | 2.8928 |
| 5100 | 0.5620 | 0.5675 | 0.0945 | 28800 | $21.119{ }^{8}$ | 18.1027 | 3.0171 |
| 5400 | 0.7425 | 0.6364 | 0.1061 | 29400 | 22.0092 | 18.8651 | $3.14{ }^{1}$ |
| 5700 | 0.7847 | 0.6726 | 0.1121 | 30000 | 22.9167 | 19.6431 | 3.2736 |
| 6000 | 0.9167 | 0.7857 | 0.1310 | 36000 | 33.0000 | 28.2857 | 4.7143 |

したリヒLS．



Plate CCX（＇II．


多


Ciy. -1


- Vin.





## L E V．［ 781$]$ 〕 E V

Levelling．The following is a firmple rule for determining the depreflion of the true level in the practice of levelling．
＂Multiply the number of Gunter＇s decimal Atatute chains that are contained in length between any two flations where the levels are to be taken by itfelf，and the product arifing therefrom again by 124 ，which is a common multiplier for all manner of diftances for this purpofe on account of the earth＇s curvature ：then di－ vide the fecend product arifing therefrom by 100,000 ； or，which is allo the fame，with the dah of the pen cut off five figures on the right hand fide of the pro－ duct，and what remains on the left fide is inches，and the five figures cut off decimal parts of an inch．＂

The following is $A$ Table of Curvature of the Earth， and flows the quantity below the apparent level at the end of every number of chains to 100.

| $\begin{aligned} & \frac{3}{2} \\ & \frac{\hat{e n}}{5} \end{aligned}$ | － | $\frac{\Omega}{0}$ | 言 | 魚 | － | \％ | ¢ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 0.00125 | 14 | 0.24 | 27 | 0.91 | 40 | 2.00 |
| 2 | 0.205 | 15 | 0.28 | 28 | 0.98 | 45 | 2.28 |
| 3 | 0.01125 | 16 | $0.3^{2}$ | 29 | 1.05 | 50 | 3.12 |
| 4 | 0.02 | 17 | 0.36 | 30 | 1.12 | 55 | $3 \cdot 78$ |
| 5 | 0.03 | 18 | 0.42 | 31 | 1.19 | 60 | $4 \cdot 5^{\circ}$ |
| 6 | 0.04 | 19 | 0.45 | 32 | 1.27 | 65 | 5.31 |
| 7 | 0.06 | 20 | 0.50 | 33 | 1.35 | 70 | 6.12 |
| 8 | 0.08 | 21 | 0.55 | 34 | 1.44 | 75 | 7.03 |
| 9 | 0.10 | 22 | 0.60 | 35 | 1． 53 | 80 | 8.00 |
| 10 | 0.12 | 23 | 0.67 | 36 | 1.62 | 85 | 9.03 |
| 11 | 0.15 | 24 | 0.72 | 37 | 1.71 | 90 | 10.12 |
| 12 | 0.18 | 25 | 0.78 | 38 | 1.80 | 95 | 11.28 |
| 13 | 0.21 | 26 | 0.84 | 39 | 1.91 | 100 | 12.50 |

Levelling is cither fimple or compound．The for－ mer is when the level points are determined from one flation，whether the level be fixed at one of the points or between them．Compound levelling is nothing more than a repetition of many fimple operations．

An example of fimple levelling is given Plate CCXCV．fig．1，where $A B$ are the ftation points of the level ；CD the two points afcertained．Let the height

$$
\begin{array}{llll}
\text { From A to } \mathrm{C} \text { be } & - & 6 & 0 \\
\text { From } \mathrm{B} \text { to } \mathrm{D} \text { be } & - & 0 \\
\text { The difference } & - & 0 & 0 \\
\hline
\end{array}
$$

flows that B is three feet lower than A ．
If the ftation－points of the level are above the line of fight，as in fig．2．and the diflance from A to C be fix feet，and from B to D nine feet，the difference will ftill be three feet which B is higher than A ．

As an example of compound levelling，fuppofe it were required to know the difference of height be－ tween the point A on the river Zome，and N on the river Belann，fig．3．（As our author could find no latis－ faftory examples in any Englith author，he copicd this and the following ones from M．le Febure）．In this
operation ftakes thould be driven down at $\Lambda$ and N ，Levelting． exactly level with the furface of the water；and thefe ftakes fhould be fo fixed，that they may not be chan－ ged until the whole operation be Ginifled：a plan of the ground between the two rivers fhould then be made， by which it will be difcovered，that the flortef way between the rivers is by the dotted line $\mathrm{AC}, \mathrm{CH}$ ， HN ；from whence allo the number of flations necef－ fary to be taken will be determined．The operator will alfo be enahled to diftribute them properly ac－ cording to the nature and fituation of the ground．In the figure， 12 flations are marked．Stakes ought then to be driven in at the limits of each ftation，as $\mathrm{A}, \mathrm{B}$ ， C，D，\＆c．They onght to be about two or three in－ ches above the ground，and driven 18 inches into it． Stakes fhould alfo be driven in at each flation of the inftrument，as $1,2,3,4, \& \mathrm{c}$ ．

The operation may be begun in the following man－ ner．Let the firl ftation be at 1 ，equally diflant from the two points $A$ and $B$ ，which themfelves ate diflant 166 yards．Write down then in one column the firlt $\operatorname{limit} \mathrm{A}$ ；in another，the number of feet，inches，and tenths，with the points of fight indicated on the Ita－ tion－ltaff at $A$, viz．7．6．0．In the third column，the fecond limit $\mathbf{B}$ ；in the fourth，the height indicated at the flation－fatf B，viz．6．0．0．Lafly，In the fifth co－ lum，the diftance from one fation－tiaff to the other ； which in this cafe is 166 yards．Remove now the le－ vel to the point marked 2 ，which is in the middle be－ tween B and C ，the two places where the flation－ flaves are to be held；obferving that $B$ which was the fecond limit in the former operation，is the frift in this． Then write down the obferved heights as before；in the firf culumn $B$ ；in the fecond 4.6 .0. ；in the third C ；in the fourth 5.6 .2 ；in the fifth 560 ，the di－ flance between B and C ．

It being impofible，on account of the inequality of the ground at the third flation，to place the inflrument in the middle between the two ftation－llaves，find the moft convenient point as at 3 ；then meafure exantly how far this is from each flation－flaff，and you will find that from 3 to C is 160 yards；from 3 to D， 80 yards；and the remainder of the operation will be as in the preceding Itation．

In the fourth operation，we mult endeavour to com－ penfate for any error which might have happened in the laft．＇Mark out，therefore， 80 yards from the fta－ tion－ftaff D to the point 4 ；and 160 yards from 4 to E ；and this mult be carefully attended to，as by fuch compenfations the work may be much facilitated．Pro－ ceed in the fame manner with the eight remaining fta－ tions，obferving to erter every thing in its proper co－ lumn：and when the whole is finiffed，add the fums of earh column together，and then fubtraa the leffer from the greater；the difference，which in the prefent calc is 5．4．8．Thows the ground at N to be thus much lower than the ground at A．

To obtain a feation of this level，draw the dotted line 00 ，5g．4．either above or below the plan；which may be taken for the level or horizontal line．Let fall then perpendiculars upon this line from all the fation－ points and places where the flation－flaves were fixcd． Beginning now at $A$ ，fet off 7 feet 6 inches upon the line from $A$ to $a$ ：for the height of the level－point de－ termined on the flaff at this place，draw a line through．

## L E V -82 $] \quad \mathrm{L}$ E V

Levecling. a parallel to the dotted line 00 , which will cut the thitd perpendicular at $b$, the fecond fation-liaff. Set off from this point downwards fix feet to B , which fhows the fecond limit of the firt operation; and that the ground at B is one foot fix inches higher than at A : place your inflrument between thefe two lines at the height of the level line, and trace the ground according to its different heights. Now fet off, on the fecond flationftaft B, four feet fix inches to C , the height determined by the level at the fecond flation : and from C draw a line parallel to oo, which will cut the fifth perpendicular at $d$, the third fation-flaff. From this point fet off $\boldsymbol{f}$ feet 6 inches ro downrards to C , which will be our fecond limit with refpect to the preceding one, and the third with refpect to the firft. Then draw your inftrument in the middle between 13 and C , and delineate the ground with its inequalities. Procced in the fame manner from thation to flation, till you arrive at the laft N , and you will have the profile of the ground over which the level was taken.

This method anfivers very well where only a general profile of the different itations is required; but where it is necefiary to have an exact detail of the ground between the limits, we muft then go to work more particularly. Suppofe, therefore, the level to have been taken from A to N by another route, but on more uniform ground, in order to form a canal marked $O, P, O, R, S, T, U, X, Y$. Draw at pleafure a line $Z, Y$, fig. 5 . to repiefent the level, and regulate the reft ; then let fall on this line perpendiculars to reprelent the faves at the limits of each ffation, taking care that they be fixed accurately at their refipective diltances from each other. The difference between the extrene limits, in this cafe, ought to be the lame as in the former, viz. 5 feet 4 inches $\frac{6}{10}$. Set off this meafure upon the perpendicular o the firt limit; and from $o$, prolonging the perpendicular, mark off at $a$ the height determined at the firf Ation-faff; then do the fame with the lecond and third, and fo on with the following, till this part of the work is finifhed; there remains then only to delineate in detail the ground between the flation-ftaves, the diffances in this example being affumed larger on account of the detail.

To obtain the fection of the ground between O and $P$, place your inftrument at one of the limits, as $P$, fxing it fo that the crofs hairs may anfwer to the point C ; then look towards the firf limit $o$, railing or deprefling the vane till it coincides with the interfection of the crofs hairs; and the line of light from one point to the other will mark the level or horizontal line.

To fet off the height of the brink of the niver above the firft limit, drive a flake down clole to the ground at $a$; and place ycur ilation-ftaff upon it, obferving where the laiars interfect the vane, which will be at 4 fect 10 inches; then laying off upon the line $0 \approx$ the dilance from the firlt to the lall llake, let fall from thence a perpendicular, and fet of thercon +.10.0. to a, which gives the height at the firf fake; or, which is the lame, thic heiglit from the edge of the river above the furface of the water, as is esident from the fction. Drive a fecond ftake at 6 , in a line between the limits; place the flation flaff upon this fake, and o' ferve the height 4.6. interfected liy the crofs laiss, the inftrument fill remzinine in the fime fituation. Set ofi on the level lise the ditance from the firlt fake a
to the fecond $b$ : and then let fall a perpendicular, and Leveling. mark upon it 4.6 to $b$, which gives tlie height of the ground at this place.
The fmail hollow $c$ is marked out by driving down a third fake even with the ground, in the middie of it at $c$; but the exact difance of the fecond ftake $b$ from the third $c$, mult be marked upon the level linic: then leț fall a perpendicular from $c$, and fot off upo:s it 6. S. o, pointed out by the crofs hairs on the flati, which deternines the depth of the hollow, as appears from the figure. As the difances betreen the ftakes are now very thort, they can eaifly be marked by the operator, who can fettle any little inequalities by a compariton with thofe already afcertaincd. Broceed thus with the other llations till you arrive at the laft, and you will always obtain an accurate fection of your work ; by which it is eafy to form a juf eltimation of the land to be dug away, in order to form the canal, by adding the depth to be given to it.
Fig. 6. gives an example of compound levclling, where the fituation is fo fleep and mountainous, that the flaves cannot be placed at equal diflances from the inftrument, or where it is even impofible to make a reciprocal levelling from one flation to the other. Thus fuppofe the point K to be the bottom of a bafon where it is required to make a foumtain, the reiervoir being at $A$; fo that, in order to hnow the height to which the jet d'eau will rife, it is necellary to know how high the point A is ahove K .

In great heights fuch as this, it will be necefiary to proceed by frall defcents, as from $A$ to $D$. The infitisment mull be adjufted with all poflible care; and it will even be proper, in fome part of the work, to wie a fmaller infrument. The following is a table of the difficrent operations ufed in making this level, it having been taken from M. le Febure's practice.

| Feet. In. | Feet. In. | Yards. |
| :---: | :---: | :---: |
| A 216 | C $\quad 9$ | $\bigcirc$ |
| C 43 | D 0 | 40 |
| D 39 | E 16 | 350 |
| E 50 | F 17 | 250 |
| F 106 | G 5 | 375 |
| G 5 | H 19 | 300 |
| H 5 | K 47 | 1000 |
| 550 | 106 | 2405 |

In this cafe only two levellings are made between A and D, though more would have been neceflary; but they are omitted to aroid confulion. In the fourth flation the height found was 16 feet 8 inches; but on account of the great length, it was requifite to reduce :he apparent level to the true one, which is always neceffiary where the length is confiderable. At the latt limit we get the height from N to 0 ; then from o to I ; from I to K, fig. 7. \&c.; all which added together, and then correcled for the curvature, gives 47 feet 3 inches. Now, by adding each column together, and fubtracting one from the other, we have 51 feet 9 inches for the beight which the point A is above the botton of the balon, and which will caule the jet d'eau to rife about 45 eet. The general fection of this operation is fluwn at fig. 7. 8.

## L E V [ 783 ] L E V

Level!irc. but an exad orofile of the mountain is more dificult, as requiring many operations; though fome of thefe night be obtained by meafuring from the level line without moving the intlrument.

The latt ex?mple given by our author is likewife from M. le Febure, and includes a length of near five German miles ( 25 of ours) in a flraight line, and 9 or 10 ( 45 or 50 Englifh) inciuting the turnings and wi:dings. In this the declivity of the river Haynor was meafured from Lignebruk to Villebourg. The firlt operation was to drive llakes at feveral parts of the river even with the water's edge; the firf of which a little above the mills of Lignebruk thowed the upper water-mark, and another fhowed the lower water-mark at the frme mills. Two flakes abore and below the mills of Maxurance, fomerrhat more than half way between Lignebruk and Villebourg, pointed out the difference betiseen high and low water there, and formed likewife the third and fourth limits of the operation; while the flakes abnve and below the mills of Villebourg pointed out the difference between high and low water, and likewife formed the lat linnits of the operation.

Thefe marks were all made at the edge of the wa. ter, exacly even with its furface, and all made at the different paris of the river nearly at the fame inflant of time. "The principal limits of the le velling (fays Mr Adams) being nori determined and fixed, it only remains to find the level between the limits, according to the methods already pointed out, ufing every advantage that may contribute to the fucce's of the work, and at the fame time awoiding all obftacles and difficulties that may retard or injure the operations. The firft rule is always to take the fhorteft poffible way from one limit to another, though this rule ought not to be followed if there are confiderable obftacles in the way, as hills, woods, marhy ground, or if, by going afide, any adrantage can be obtained." In the prefent cafe it was found necelfary to deviate very confiderably from the general rule, in order to take in feveral ponds, the furfaces of which might all be taken for a perfest level; and thus levels were frequently taken acrofs the country for a confiderable way. The difference of height between the mills of Lignebruk and Villebourg was at laft found to be about ig feet, indicating a defcent of not quite a foot in a mile.

Levelling-Staves, inftruments ufed in levelling, ferving to carry the marks to be obferved, and at the fame time to meafure the heights of thofe rnarks from the ground. They ufually confift of two mahogany flaves ten feet long, in two parts, that fide upon one another to about $5 \frac{5}{50}$ feet, for the more portable carriage. They are divided into 1000 equal parts, and numbered at every tenth divifion by $10,20,30$, \&c. to 1000 ; and on one fide the feet and inches are alfo fometimes marked.

A vane A fides up and down upon each fet of thefc flaves, which by brafs fprings will ftand at any part. Thefe ranes are about 10 inches long and $t$ inches broad; the breadth is firf divided into three equal parts, the two extremes painted white, the middle fpace divided again into three equal parts, which are lefs; the middle one nf them is alfo painted white, and the two other parts black; and thus they are fuited to all the common ditlances. Thefe vanes have each
a brafs wire acrofs a fmall fquare hole in the centran, which ferves to point out the height correaly, by cJ. inciding with the horizontal wire of the telefcope of the level.

LEVEN, a river of Lenos or Dunbatomflire in Scorland. See Lexov.

LEVER, in Mechanicr, is a bar of iron or wond, one part of which being fupported by a prop, all other parts turn unon that prop as their centre of motion. This indrument is of two kinde. Firil, the common fort, where the weight we defire to raife refts at one end of it, our frength is applied at the other end, and the prop is between both. When we flir up the fire with a poker, we make ufe of this levcr ; the poker is the lever, it refls upon one of the bars of the grate as a prop, the incumbent fire is the weight to be overcome, and the other end held in the hand is the ftrength or power. In this, as in all the reft, we have only to increafe the diffance between the firengti and prop to give the man that works the inllrument greater poser.

The lever of the fecond kind has the prop at one end, the ftrength is applied to the oth:cr, and the weight to be raifed retts between them. Thus in raiting the water-plug in the ffrects, the workman puts his iron lcver through the hole of the pluy till the reaches the ground on the other fide, and, making that his prop, lifts the plug with his ffrength at the other ent of the lever. In this lever alfo, the greater the diflance of the prop from the frength, the greater is the workman's power.

T'hefe inftruments, as rie fee, affitt the fltength; but fometimes a workman is obliged to act at a difadvantage, in raifing either a piece of timber or a ladder upon one end. We cannot, with grammatical plopriety, call this a lever, fince fuch a piece of timber in fact in no way contributes to raife the weight. In this cafe, the man who is the ftrength or power, is in the middle, the part of the beam already raifed is the weight, the part yet at the ground is the prop on which the bean tuins or rells." Here the man's ftrength will be diminilled in proportion to the weight it fuftains. The weight will be greater the farther it is from the prop, therefore the man will bear the greater weight the nearer he is to the prop. See Mechanics.

LEVERET, among fportfinen, denotes a hare in the firlt year of her age.

LEVIGATION, in Pharmacy and Chemifry, the reducing hard and ponderous bodies to an impalpable porder, by grinding them on a porphyry, or in a mill.

LEVTITE, in a general fenfe, means all the defecnddants of Levi, among who:n were the .lewihh priedls themfelves, who, being defeendel from Aaron, were likewife of the race of Levi. In a more particular fenfe, Levite is ufed for an order of officers in that church, who were employed in performing the manual fervice of the temple. They wore obedient to the pripfts in their miniltration, and brought them wood, water, and other necellinies for the facrifice.-They fung and played upon inflruments in the temple and in other places. They applied themfelves to the fludy of the lair, and were the ordinary judyes of the courimy, but always fubordinate to the priclls. Their fubfirtence was the tithes of corn, fruit, and ca:tle, througlion:

## L E V [784] L E W

Inviticus throughout Ifrael : but the priefts were entitled to a I. сиwenhoak. tonth of their tithes, by way of firf fruits to the Lord. Eight and forty cities were affigned for the refidence of the Levites, of which the priefts claimed thirteen,
fix whereof were chofen for cities of refuge. They were confecrated, before they entered upon their miniltry, by thaving their \#lefl, wafhing their clothes, and fprinkling with the water of expiation. Impofition of bands was ufed in confecration, and two bullocks were onfered at the door of the tabernacle. They waited weekly, and by turns, in the temple, beginning their attendance on one fabbath and ending the next : During this time they were maintained out of the offerings, \&c. In the time of Solomon, the number of Levites, from the age of 20 , and capable of ferving, was 30,000 .

LEVITICUS, a canonical book of the Old Tefta--ment, fo called from its containing the laws and regulations relating to the priefts, Levites, and facrifices.

LEVITY, in phyfiology, the privation or want of weight in any body when compared with another that is heavier than it ; in which fenfe it flands oppofed to gravity.

LEUK, a town of Switzerland, almoft in the middle -of the Valais; remarkable for its natural frength, for the affembly of the flates that often meet there, and for its baths, whofe water is fo hot that it will boil eggs.

LEUSDEN, Јонм, a celebrated philologer, born in 1624. He fudied the learned languages and mathematics at Utrecht ; and then went to Amfterdam, to converfe with the rabbis, and perfeet himfelf in the Hebrew tongue. After which he was profeffor of Hebrew at Utrecht, where he acquired a great reputation, and died in 1699 . He wrote many valuable works; the prircipal of which are, t. Onomaficum Sacrum, 8vo. 2. Clavis Hebraica et Philologica Veteris Tefanenti, 4to. 3. Novi Teflamenti Clavis Graca, cumn Annotaionibus Philologicis, 8vo. 4. Compendium Biblicumn Veteris Teflamenti, 8vo. 5. Compendium Gracum Novi Teflamenti; the beft edition of which is that of London, in 1668, 12 mo . 6. Philologus Hebreus, 4 to. 7. Philologus Hebreo mixtus, 4to. 8. Philologus He-brce-Gracus, 4to. 9. Notes on Jonas, Joel, Hofea, \&c. He alfo gave correct editions of feveral learned works.

LEUTKIRK, a free and imperial town of Germany in Suabia, and in Algow, feated on a rivulet that falls into the lllar, in E. Long. 10. 10. N. Lat. 47. 53.

LEUTMERITZ, a town of Bohemia, capital of a circle of the fame name, with a bihop's fee, feated on the river Elbe, in E. Long. 14. 25. N. Lat. 50.34.

LEUWENHOEK, ANToNy, a celebrated Dutch philofopher, was born at Delft in 1632 , and acquired an extenfive reputation all over Europe, by means of lis difcoveries and experiments in natural hifory, which were made by him with the microfcope. He particularly excelled in making glafies for microfcopes and fpeetacles; and he was a member of moft of the literary focieties of Europe, to which he fent a number of valuable memoirs. Thofe in the Philofophical Tranfactions and in the Paris Memoirs, extend through many yolumes; the former were extracted and publihed at
 age.

LEVY, in Laiv, fignifies to gather or collect; as to levy money, and to levy a fine of lands in the palfing a fine.

LEWARDEN, a handfome, rich, and ftrong town of the United Provinces, capital of Oitergow, Weftergow, Sevenwolden, and Wef Friefland. It was the ufual place of refidence of the Stadtholder; and in buildings, as well public as private, is very magnificent. It has feveral canals running through the freets, which are of great fervice to their trade, efpecially as they are continued to the fea and to the moft confiderable towns of the province. E. Long. 5. 42 . N. Lat. 53.12.

LEWDNESS. See Fornication.-Lewdnefs is panihable by our law by fine, imprifonment, \&c. And Mich. 15 Car. II. a perfon was indieted for open lewdnefs, in hhowing bis naked body in a balcony, and other mifdemeanors; and was fined 2000 merks, imprifoned for a week, and bound to his good behaviour for three years. I Sid. 168 . In times pant, when any man granted a leafe of his houfe, it was ufual to infert an exprefs covenant, that the tenant thould not entertain any lewd women, \&c.

LEWENTZ, a town of Upper Hungary, in the county of Gran, and on the river of the fame name, where the Turks were defeated in 1644 . E. Long. 18. 19. N. Lat. 48. 15.

LEWES, a large well built town of Suffex, in England, feated on an eminence on the banks of the Oule, 50 miles from London. It is famous for a bloody battle fought near it, wherein King Henry III, was defeated and taken prifoner by the barons; and is fo ancient, that we read the Sason king Athelltan appointed two mint-houfes here, and that in the reign of Edward the Confeffor it had 127 burgeffes. It is a borough by prefcription, by the fyle of conftables and inhabitants. The conftables are chofen yearly. It has handfome flreets and two fuburbs, with fix parith churches. It carries on a great trade; and the river Oufe runs through it, which brings goods in boats and barges from a port 8 miles off. On this river are feveral iron-works, where cannon are caft for merchant hips, befides other ufeful works. A charityfchool was opened here in 1711 , where 20 boys are taught, clothed, and maintained, at the expence of a private gentleman, by whom they were alfo furnihed with books; and 8 boys more are taught here at the expence of other gentlemen. Here are horfe-races almoft every fummer for the king's plate of 1001. The roads here are deep and dirty; but then it is the richeft foil in this part of England. The market here is on Saturday; and the fairs May 6. Whitfun Tuefday, and October 2. The timber of this part of the county is prodigioufly large. The trees are fometimes drawn to Maidfone and other places on the Medway, on a fort of carriage called a tug, drawn by 22 oxen a little way, and then left there for other tugs to carry it on; fo that a tree is fometimes two or three years drawing to Chatham; becaufe, after the rain is once fet in, it Atrs no more that year, and fometimes a whole fummer is not dry enough to make the roads paffable. It is cheap living here; and the

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Lewis. town not being aunder the direation of a corporation, but governed by gentlemen, it is reckuned an cxcellent retreat for half-pay officers, who cannot fo will contine themfelve, to the rules of a corporation. It fends two members to parliament.

LEWIS, one of the largeft of the Hebrides or Weitern itlands of Scotiarid, exterding about 60 miles in length from north to fouth, and from 13 to 14 in breadth, confitting of a great number of illes and rocks, and paried by the fea into two divifions, called Lewis and Harries, the former lying to the weftward of the other. Levris belongs to the thire of Rofs; is divided by feveral channels, diftinguiflied by feveral names, and portioned out among different proprietors; but the Leuris, thrictly fo called, Aretches about 36 miles in length, from the north point of Bowling head to the fouthern exiremity of Ifulfinefs in Harries. The air is temperately cold, moif, and healthy ; great part of the low ground is fooded with lakes; the reft is arable in many places, and has been counted fruitful in oats, barley, rye, flax, and hemp. Tbe foil in thefe parts is a light fand, which the inhabitants manure with foot and fea-ware ; but great part of the ifland is covered with heath. The labouring people dig the land with fpades, and break the clods with fmall harrows, the formoft teeth of which are made of wood, and the remainder of rough heath, which finooths what the others hare broken; and this harrow is drawn by one man, having a ftrong trace of horfe-hair acrofs his breaft. Of their corn they not only make malt for ale, but likewife a ftrong firit called treflareg, which is the whiky, or ulquebaugh, three times difilled. Lewis abounds with convenient bays and harbours, in which are caught, in great plenty, cod, ling, and herring: here are likerrife whales of different fizes, which the natives drive into the bays, and kill with harpoons. Thefe bays afford great plenty of thell-filh, fuch as clams, oyfters, cockies, mufcles, limpets, welks, and fuch a prodigious quantity of fpout-fith is fometirses calt up from the fand off Lochiua, that they infect the air, and render it unhealtby to the neighbouring inhabitants, who are not able to confume them, tither by eating, or ufing them as manure for the ground. Some of the le lochs and bays likewile produce fmall coral and coralline. The frefh-water lakes are well ftored with trout and eels, and the rivers yield plenty of falmon. Along the coatt are found a great number of caves, which ferve as fhelter for the feals and otters, which are aifo eaten as dainties by the inhabitants; and vaft numbers of fea-fowl build upon the rucks and promontories.

The land animals reared in this illand, are cows, horles, lheep, goats, hogs, and deer; all thele are of a dimmutive fize. The beef, muttori, and porl, are juicy and delicious; the horles are active and hardy; the deer, which are of the red kind, confine themfelves to the chafe of Ofervaul, about 15 miles in compafs, which aftords tolerable palturage; but in the winter, when the ground is covered with fruft and fnow, the?e animals are forced to feed on fea-ware, and endure all the rigour of the feafon, without any lielier from wood or copfe, for there is not a tree to be feen; neserthe!efs, the roots of very large trece, which have been cu: by the axe, are found in different places.

Tol. XI. Part II.

There is likewife a fmall grove of birch and hazel on Icmix. the louth-weft fide of Loch Stornaway.

The inhabitan:s of Lewis are well-proportioned, tall, fair. fanguine, frong, and kcalthy. They are in zeneral fober, circumlpen, and hofpitable; dextcrou in fhooting, fwimming, and leapiug; bold anत 1 filiful mariners; and Co temperate, that they will tug at the oar all day, without any other proviñon than bread and water, with a fnuth of tobacco.

Along this coalt we fee feveral natural minunts, or furts, cailed Duns; furt as Dun-rowly, Dun-coralel, and Dun-cillen. Tliere are allo the remains of fume old caftles, and other monuments of as iquity. At Stornaway village we fee the ruins of a fortrefs defroyed by the Englith garrifon fent thither by Oliver Cromwell. To the northward of Braso there is a round tower built of large flones, three fories high, tapering towards the top, with a double svall, and a circular ftaircale between, by which one may go quite round the buiding. On the heaths and fummits of hills there are feveral cairns or heaps of frones, which ferved either fur graves or beacons. In the parith of Barvas we fec a fingle fone called the thrulhich, flanding upright, above 20 feet high, and almait as much in breadth. Three fores, about 12 feet high each, are feen flanding on the nortlı fide of Loch Carlvay; and many others fanding fingle at great diftances, and in remote parts of the illand. But the molt remarkable monument of this kind appears by the village of Claffermifs. Here we find 39 pyranidal itones Itandirg upright, about fix or feven feet ligh from the furface, each about two feet in breadth. They are placed in form of an avenue, eight feet wide; the diflance between every fone anounting to fix feet, and a fingle piece flands at the entrance. This avenue leads to a circle of 12 ftones of the fame dimentions, with one in the centre 13 feet in length, and chaped like a rudder : on the eait, fouth, and welt fides of this circle, are four itones, fuch as thofe that compofe this round and averue, forming three lines, or as it were rays from the body of the circle. This is fuppofed to have been a Druid temple; and tradition reports, that the chief Druid ifood by the large flone in the centre, and harangued the audience. At the difance of a quarter of a mile the $\therefore$ is another circle of the fame nature; but without the range and avenue. In all probability, tbefe, as well as the monuments we have defcribed in our account of the Orkneys, and Stonehenge on Salithury plain, were places of worlhip erected by the Druids in time of Pagan fuperllition. The chief town in Lewis is Stornaway.

There is a confiderable number uf inferior acljacent illes and rocks, fome of which hardly defcrue to be mentioned: fucls as the fmall illand Garve at the mouth of Loch Carlvay, Berinfay, Fladda, Bernera Minor and Bernera Major, Kialifay, Cavay, Catray, Grenim, Pabay, Shirem, Yexay, IVuya the Larger and Leffer, and the Flannan illands, which the feamen denominate the northern hunters. 'Thefe are vifited every fummer by the inhabitants of the Levis, who go thither in queft of fowls, eggs, duwn, quills, and feathers, as well as to dlear or hill the fheep tiat are kept here for pallure. Is thefe illands are very ftecp and rocky, the vifitors, after having landerl and $5^{G}$
climbed di:mbed up the rock by a ladder, uncover their heade, and, mahing a turn fon-ways, thank God for having efcaped the dariger they have undergone. In the larsett inand are the ruins of a chapel dedicated to St Flamnan, from whom the illes derive their name. Thither the fowlers repairing, ftrip themfelves of their upfer garmente, which being laid upon a ttone, they adrave tuwnds the altar, and repeat three prayers; an exere fe which is performed every morning and evening. They obferve many other fupertitious cuftoms duni:g their refillence on theforock; and when they have landed their boat with their purchafe, return to the larger illands. Anong the ifands belonging to the L.ewis, we may likewife take notice of the fmall ifle of Pigmies, fo called, becaufe, it is faid, bones refembling thole of human creatures, but of very fmall dimentions, have been dug out of the ground.

The illand of Lewis is divided into the two parihes of Birvas and Eye, and in each of thefe one minifter is feitled; but tliere is a great number of churches and chapels dedicated to different faints, in the different inles which compofe this clafter. All thefe were fanituaries before the Reformation, but now they are divelted of that privilege. 'The people of thefe illands are Preflyterians, with a feiv Proteltants of the Englifh cormurion, and a fill fmaller number of Roman ${ }^{\circ} \mathrm{Ca}$ tholics. The Proteftants obferve the feftivals of Chriftmas, Good Friday, Eafter, and Michaelmas ; on the laft of which the individuals of both fexes perform an anniseifary cavalcade.

Lewis, or Louis, the name of feveral kings of France. See Fraxck.

Lewts VII. anno 1137, was the firlt who had the courage to oppofe the cncroachments of the popes on the regal authority: Pope Innocent II. excommunicated him for appointing an archbilliop of Bourges; but Lewis defended his prerogatives, and put the priefts to death who had been the authors of the quarrel. In 1:47, he put himfelf at the head of an army of 80,000 men, and marched againft the Saracens, in the fecond crufade, but was defeated; and returning into France by fea, was takeı by the Greeks, but relcued by Roger king of Sicily. His queen Eleonora accorapanied him in this expedition; and being fufpected of infidelit; with Saladin, a young Turk, Lewis divorced her, and fhe was married fix weeks after to Henry duke of Normandy, (Henry II. king of England). Lewris died in 1180 , aged 60.

Lewis IX. anno 1226 (canonized), was one of the greatef monarchs of France, equally memorable for bis valour and his virtues; but, unfortunately milled by the fuperfition of the times, he facrificed his own repofe, and the welfare of his kingdom, to the folly of crufading. In 1248, leaving France to the care of his mother, he embarked for Egypt, attended by his queen, his three brothers, and the flower of the French nobility. At firft his victories were rapid; be took Damietta in 1249; but the following year he was defeated and taken prifoner by the Turks, with all the notility in his train, and the greatef part of his army. The fuitan fent to him in prifon, to demand an exorbitart fum for his ranfom; and his anfwer being truly noble, deferves to be recorded: "Tell the fultan, that a king of France is not to be ranfomed with money; I will give the fum required for
my people, and Damicta for myfelf." Thefe terms Lewis. were accepted, and a peace of ten ycars enfued. . Upon his return to Frazce, he diminihed the tavec, revoked thofe which the cupidity of the fin: ciers had introduced ; inued feveral falutary edias; founded feveral churches and holpitals; and effectually overturned the ecclefiatical jurifiction of the court of Rome, by his pragmatic fanction in 1269, wh:ch ellabhilhed the inde"endency of the Gallican church. Thirteen years refidence in his capital indemaificd his fubjeels for his abfence; but his pious zeal prevented the enjoyment of this bappinefs: he embarked for the fixth crufade in 1270 ; and died the fame sear, at the fiege of Tunis, aged 55 .

Lewis XI. anno $1 \nleftarrow 6 \mathrm{r}$. His oppreffions oblised his fubjects to enter into a league againt him, ityled "Ligue de bien publiq," in rhich his brother the duke of Berri and fome of the principal nobility were concerned: they folicited fuccours from Joln duke of Cala. bria, who joined them with 500 Swifs (the firf introduction of Swifs foldiers into the French armies.) His reign was almot one continued fcene of civil war ; and it is computed, that 4000 of his fubjects were executed in public and privately, either for being in arms againit him, or fufpected by him. In his laft illnefs, he drank the warm blood of children, in the vain hope of reltoring his decayed ftrength. He clied in 1483 , aged 60 . The pofts for letters were eflablifhed in his reign, owing to his eagernefs for news; the firlt inflitution of this mature in Eurape.

Lewis XII. anno t492, fyled the fuf, and the Fa. ther of lis people; memorable for his valour in the field, and his wildom in the cabinet. A great general ; but unfortunate towards the end of his reign, when he did not command his troops in perfon: his orders trantmitted from home were mifundertood, or wilfully diiobeyed; and he had the mortification, before he died, to fee the total expulfion of the French from the polfeffions he had acquired for them by his perfonal bravery. At 53 years of age, he married the princefs Mary of England, fifter of Henry VIII. and being of a delicate conltitution, fell a victim (according to the French hiftorians) to amorous dalliance ; for he died in about two months after his nuptials, in 1515 .

Lewis XIII. anno 1610 , increafed the military reputation of his country, and made confiderable additions to its domains. The beginning of his reign was occupied in civil wars with his mother and his Proteftant fubjects; in which he was excited to continue by his famous ininifter Cardinal Richelieu, who attended him to the fiege of Rochelle, the bulwark of the Huguenot party. This place was reduced by famine to furrender, in 1628, after a fiege of more than a year. Upon this and other occafions, the king gave proofs of great perfonal bravery. His attachment to his ally the duke de Nevers, who fucceeded to the duchy of Mantua, but was refufed the invefiture by Charles VI. emperor of Germany, involved him in a war with that prince, the Spaniards, and the duke of Savoy; in which Lewis was vifforious; and obtained a treaty of peace, by which the duke of Mantua was guaranteed in the pofleflion of his dominions. In 1635, a new war broke out between France and Spain, and the emperor took part with the latter: it lafted, 13 years againft the emperor, and 25 againf Spain, with

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Lexis, various fuccefs; and the different armics kept oil foot in the Low Countries, on the frontiers of France, and in Italy, in the firf years of this war, paved the way for the fignal fuccelfes of Lewis XIV. the campaig:ns of thefe armies being a military fchool of difcipline and experience for the French officers, bcfides giving them a knowledge of the countries which bccame the fert of war in the next reign. Lewis XIII. died 1643 , aged 41.

Lewis XIV. ie Grand (king at five years of age), anno 1643. He was at firft fyled Dicu-donne, becaule the French confidered him as the gift of heaven, granted to their prayers after the queen had been barren 22 years. This princefs (Anne of Auftria) was declared regent by Lewis XIII. and faw herfelf under a neceffity to continue the war againft Philip IV. king of Spain, her brother. The duke d'Enghien was made general of the French armies; and fo fignal was the fuccefs of this renowned warrior (afterwards prince of Condé, and known by the ftyle of the Great Condé), that his victories brought on the advantageous treaties of Munfter in $1 G_{4} 8$, between France, the emperor Ferdinand III. and Chriftina queen of Sweden: See Britain, United Profinces, \&c. Lewis XIV. died in 1715 , aged 77.

Lewis XV. (his great-grandion) fucceeded in 1715. He was ftyled, in the courfe of his reign, the well-beloicd, which he loft fome years before he died; and was detefted and defpifed by his fubjects for his flameful attachment to a mifirefs, who, through her patrun the duke d' Aiguillon, governed the kingdom, and invaded the ancient rights and privileges of the people. He died in 1774, in the 64th year of his age and 59 th of his reign.

Lewws XVI. the moft unfortunate of his race, and perhaps the moft enlightened and virtuous of all the fovereigns of France. He was guillotined 21 ft January 1793. For an account of his life and character, fee the article Fravce.

LeX, Law. See Liw.-The Roman laws were of three kinds: 1 ft, Such as were made by their kings. 2d, The laws of the twelve tables brought by the Decemviri from Athens, \&c. And, 3 d, Such as were propofed by the fuperior magiftrates in the times of the republic. The laws of this laft clafs were enacted in the follorving manner.

No law could be propofed but by fome of the following magiftrates, viz. the pretor, the confuls, the dictator, the interrex, the decemviri, the military trihunes, triumviri, and tribuncs of the people. If any of thefe propofed a law, it was firt committed to writing, and privately examined as to its utility and probable confequences, by fome perfons well qualified for the taik; fometimes it was referred to the whole fenate for their fentiments. It was then hung up publicly for three market days, that all the people might l:ave time to examine it, and confider its tendency: This was called legis promulgatio, quafi provulgatio. If the perfon who framed the bill did not fee caule in the mean time to drop it, the people were convened in comili:a, and he addrefied them in an oration, being alfo feconded by his friends, fetting forth the expediency and probable utility of fuch a law: This was called -ogatio legis, becaufe the addrefs was always prefaced with this petitionary form of words, Velisis jubernifne, Auirites?" Will you, O Romans, conferit and order
this law to paf:"" This being done, thole that difliked the motion delivered their fentiments in orpofition to it. An urn was then brought to certain priclls who attended upon the occafien, into which were caft the names of the tribes, centuries, or curic, as the comitia happened to te tributa, centuriata, or curiata. The names were flaken together; and the firlt-drawn tribe or century was called prarogatita, becaufe their fuffrages were firf taken. The curia that was firft drawn was called principium for the fame reafon. The other tribes, centuries, \&\&. were called tribus jure चochta, centurea jure vocata, \& c .

Matters being in this fituation, the veto or negative voice of the tribunes of the people might put ans entire end to the proceedings, and diflolve the affiembly. 'The tribune's interference was called interceffio. The conful alfo had it in his power to flop further proceedings, by commanding any of the holidays called ferize imperative to be obferved. The comizia would of courfe be diffolved allo by any of the perfons prefent being feized with the falling ficknefs, or upan the appearance of any unlucky omen. But fuppofing the buifnefs to meet with no interruption of this fort, the people were each of them prefented with two tablets, on one of which was written in large charaters A. on the other U.R. Their difapprobation of the bill was exprefied by throwi:!g into an urn the tablet infcribed A. fignifying "I forbidit;" antiquo, "I prefer the oid." Their affent was fignified by throwing in the tablet marked U. R. i. e. uli rogas, "be it as you defire." According to the majority of thefe tablets the law paffed or not. If it paifed, it was written upon record, and carricd into the treafury; this was called legene ferre. A fterwards it was engraved upon plates of brafs, and hung up in the moft public and confpicuous places: this was termed legem figere; and a future repeal of this law was $/ \mathrm{lg}$ emt refigerc.

If a law pafled in the comitia curiata, it was called lex curinta; if in the comita centurinata, it had the name of lex: centuriata; but if it paffed in the comitio tributu, it was termed plediffitum. The laws, too, generally bore the names of the propofers, as lex. Eflia, le.x Fülia, \& E .
Romulus ufed to make laws by his own fingle ats thority, but fucceeding kings fought the approbation of the people.
LEXIARCHI, at $A$ thens, fis officers affited by 30 inferior ones, whofe bufinefs it was to lay fines upon fuch as came not to the public affemblies, and alfo to make frutiny among fuch as were prefent.

The lexiarchi kept a regitter of the age, matmers, and abilities of all the citizens, who were always enrolled at the age of 20 .

LEXICON, the fame with dictionary. The word is chietly ufed in fpeaking of Greek dictionaries: it is derived from the Greek גeg!r, word, difion; of גiyw I Jpeak.
L.EXINGTON, a town of North America, and formerly confidered as the capital of Kentucky. It flards on the head-waters of Elkhorn river. Here the courts are held, and bufinefs regularly conducted. In $1799^{\circ}$ it contained about 2000 inhabitants, and feveral ilores, with a goo:i alformient of dry goods. It mult have increafed fince.

LEYDEN, in Latin Lusdiunum Ba:avorum, one of the largeft and finef cities in Holland, abounds wita

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caluils, alones which are rows of lofty trees that afford very pleafant walks. An arm or fmall branch of the Rhine runs through it. Over the canals are I 45 bridges, mon of them of tone or brick. The miverfity heie is the oldelt in the United Provinces: it has large privileges: a library well furnithed, and paticularly rich in manulcripts; a phyfic-garden well flocked with all forts of plants, many of which have heen brought from the Cape of Goor Hope and the Eaft Indies; as anatomy-hall, well provided with tkeletons; and an oblervatory. The profenors, who are generally very emincnt, read public lectures four times a-week, for which they take no money, but about three guineas are paid for a courfe of private lectures, which lalts a whole year. 'The Itudents have no difinet habit, but all wear fwords, though they geneally go to the public and private ledtures in their night-gowns and flippers. The falaries of the profeflors are from 1001 . to 2001. a-year: they wear gowns only when they prefide at public difputations, read public lectures, or mcet in the fenate; and their lectures are always in Latin. The ftudents do not lodge in the univerfity, but where they pleafe in the town. 'Whe cloth manofacture here is much decayed, which formerly flourifhed to fuch a degree, that 100,000 pieces, it is faid, have fometimes been made in a year. The city is famous for the long and fevere fiege it maintained in 1573 againft the Spaniards. We cannot belp mentioning the reply of that illuftrious magillrate, Adrian de Yerf, when the citizens reprefented to him the havoc made by the famine during the fiege, and intifted upon his furrendering: " Friends (faid he), here is my body, divide it among you to latisfy your hunger, but banilh all thoughts of lurrendering to the crucl and perfidious Spaniards." They took his advice, in regard to their not furrendering, and never would liften to any overtures; but told the Spaniards, they would hold out as long as they had one arm to eat and another to fight. There are fome fine. churches here, and many long, hroad, handiome, ftreets; but the Papits, as at Haerlem, are nore numerons than the Protefants.

Lerden Phial, a phial coated on the infide and outfide with tinfoil, or other proper conducting fubltance, and furnithed with a brafs wire and knob, for giving the electrical fhock. See Electricicy Indea:

Lucas Van Levoen. See Lucas.
LEYSERA, a genus of plants belonging to the fyngenefia clafs; and in the natural method ranking under the 49 th order, Compofive. See Borany Index.

LEYTE, one of the Philippine illands in the Ealt Indies, fituated in E. Long. 118. O. N. Lat. is. 0. Its gicateft length is about 40 leasues, and its circumference about 00 or 100 . Its foil on the ealt fide is very fruitful; but there are very high mountains which cut it almoll through the middle, and occafion fo great an alteration in the air, that when it is winter on the north fide, it is fummer on the fouthern part of the intand. 'lhus when the inhabitants of one half of the ifland rap, the others fow ; and they have two plentifol harveft in a year, to which the rivers running down from the abovementioned mumtans contribute sout a litile. The illand contains about 9000 inhabitants, who pay tribute to the Spaniards in rice, wax, and quilts.

LHUYD, or Lisoyd, Humplircy, a Learned anti-
quarian of the 16 th century, born at Denbigh, who Limed. applied himfelf to the fludy of phyfic; and living mos!ly within the walls of Denbigh cafte, practifed there as a phytician; and died in 1570 , with the chatazler of a well-bred gentleman. He wrote and tranilated feveral pieces relative to hiltory and antiquitics; in particular, The hiftory of Cambria, now called Wales, from Caraduc of Langcarvan, \& c. but died before it was finifhed: howewer, Sir Henry Sidney, lord pefident of Wales, employed Dr David Powel to fimih it, who publifhed it in 1584. A new and improved edition of this work was publifhed in 1774.

LHUYD, Edward, keeper of the mufeum at Oxford, was a native of South Wales, the fon of Clarles Lhuyd, Efic. of Lhanvorde. He was educated at Jefus College, Osford, where he was created M. A. July 21. 1701. He was bred under Dr Plot, whom he fucceeded as keeper of the Athmolean mufeom, and had the ufe of all Vauchan's collection. With inceflant labour and great exacinefs he employed a confiderable part of his life in fearching into the Wellh antiquities; had perufed or collected a great deal of ancient and valuable matter from their MSS.; tranfcribed all the old charters of the monafteries that he could meet with; travelled feveral times over Wales, Cornsall, Scotland, Ireland, Armoric Bretagne, cowntries inhabited by the fame people; compartd their antiquities, and made obfervations on the whole; but died in July 1709, before he had digefted them into the form of a difcourle, as he intended, on the ancient inhabitants of this illand. The untimely death of this eacellent antiquary prevented the completing of many admirable defigus. For want of proper encouragement, he did very little towards underftanding the Britith bards, having feen but one of thofe of the fixth century, and not being able to procure accefs to two of the principal libraries in the country. He communicated many obfervations to Bilhop Gibfon, whole cdicion of the Eritania he revifed; and publifhed " Archecologia Britannica, giving fome account additional to what has been hitherto publifhed of the languages, hifories, and culloms, of the original inlabitants of Great Britain, from collection and obfervations in travels through Wales, Cornwall, Bas Bretagne, Ireland, and Scotland, vol. i. Gloffugraphy, Oaford 1707 ," fol. He left in MS. a Scottill or Irih-English Dictionary, propofed to be publihised in 1732 by fubfeription, by Mr David Malcolme, a minifter of the church of Scotland, with additions; as alfo the Elements of the faid language; with necellary and ufeful informations for propagating more effectually the Englifh language, and for promoting the knowledge of the ancient Scottift or Irifh, and very many branches of ufeful and corious learning. Lhuyd, at the end of his preface to the Archselogia, promifes an hillorical dictionary of Britith perfons and places mentioned in ancient records. It feems to have been ready for prefs, though lie could not fet the time of publication. His collections for a fecond volume, which was to give an account of the antiquities, monmments, $\& \& c$. in the principality of Wales, were numerous and well chofen; but, on aecount of a quarrel between him and Dr Wynne, then fellow, afterwards principal of the college, and biflop of St $A$ fanh, he refured to buy them, and they were purchaled by Sir Thomas Scabright, of Beachwood in Hertfordhiire, in whofe library the greatelt

## L I B [ $\left.7^{29}\right]$ IL I B

Libanius greateft part fill remain, but fo indigefled, and written with fo many abbreviations, that nobody can undertake to publith them. They conilt of about to
volumes in folio, is in quirto, and above 100 fmaller, and all relate to Irilh or Wells antiquities, and chiefly in thofe languages. Carte made extracts from them about or before 1736 ; but thefe were chietly hititorical. Sir lohn Seabright has given Mr Pennant 23 of Lhuyd's MSS. Latin and Englifh. Many of his letters to Lifter, and other learned contemporaries, were given by Dr Foihergill to the univerfity of Oxford, and are now in the Ahmolean mufeum. Lhuyd undertook more for illultrating this part of the kingdom than any one man befides ever did, or than any one nan can be equal to.

LIBANIUS, a famous Greek rhetorician and fuphitt in the $4^{\text {th }}$ century, was born at Antioch, and hat a great thare in the friendhip of Julian the $A$ poftate. That prince offered him the dignity of prafectus pretorio; but Libanius refufed it, thinking the name of fophifh, or profeffor of eloquence, much more honourable. These are itill extant feveral of his letters and Greek orations, by which he acquired great reputation: but his ftyle is fomewhat affected and obfenre. He was a Pagan. Bafil and Chryfoftom were his difciples about the year 360 . His letters were pablithed at Amiterdam in 1738 ; his orations at Venice, 1755 .

LIBANOMIANTIA, in antiquity, a fpecies of divination performed with frankincenfe; which, if it prefently caught fire, and fent forth a grateful odour, was efteemed a happy omen, and vice verfa.

LTBANUS, the name of a chain of mountains of Turkey in Alia, which lie between Proper Syria and Paleltine, extending, from weft to eaft, from the Mediterranean fea as far as Arabia. 'ihe fummits of thefe mountains are fo high, that they are always covered with finow; but below are very pleafant and fruitful vallevs. They were formerly famous for the great number of cedar trees growing thereon ; but suw there are very few remaining. Geographers dilinguith this chain into Libanus and Antilibanus; the latter of which lies on the fouth fide of the valley, rifing near the ruins of Sidon, and terminates at others in Arabia, in N. Lat. 34. They are leparated from each other at an equal diftance throughout, and form a bafon, or country, called by the ancients Calo. Syria.

LIBATION, amonglt the Greeks and Romans, was an efieminl part of folemn lacrifices. It rus alfo performed alone, as a drink-offering, by way of procuring the protection and favour of the gods, in the ordinary affairs of life. Libations, according to the different natures of the gods in honour of whom they were made, conffifed of different liquids, but wine was the mofe ufual. The wine offered to the gods was always unmixed with water. We meet with libations of water, libations of honey, libations of milk, and lib.nions of nil ; thefe are called unperase isea. The libation was made with a ferious deportment and folemn prayer. At facrifices, the libation, after it had been talted by the prieft, and handed to the byflanders, was poured upon the vistim. At entertaimments, a little wine was generally poured out of the cup, before the
liquor began to circulate, to how their grativale to the gods for the bleffings they enjoyed.

Libations were allo in ule amon r the Hebrews, who poured a kind of wine on the viatimafter it was killed, and the feveral pieces of the facrifice were laill on the altar, ready to be confuned in the Hames.

LIBAIV, a fea-port town of Courland, lying oa the Baltic dea, confiting entirely of wooten hou'ec. It belongs to the duke of Courland, aud is lituated in E. Long. 21. 27. N. I.at. 56.27 .

IIBEL, (likellus frimofus), taken in its largeft and moll extenfive fenfe, fignilies any writing, picture, or the like, of an immoral or illegal tendency; but, itn a peculiar fenfe, is uled to denote a malicious defamation of any perfon, and efpecially a magitrate, made public by either, printing, writing, figns or piGures, in order to provoke him to wrath, or expofe him to public hatred; contempt, and ridicule. The direct tendency of thefe libels is the breach of the public peace, by ftirring up the objects of them to revenge, and perhaps to bloodihed. The communication of a libel to any one perfon is a publication in the eye of the low: and therefore the fending an abufive private letter to a man is as much a libel as if it were openly printed, for it equally tends to a breach of the peace.

With regard to libels in genctal, there are, as in many other cafes, two remedies; one by indictment, and another by action. The former for the public offence; for every libel has a tendency to break the peace, or provoke others to break it: which offence is the fame wheiher the matier contained be true or falfe; and therefore the defendant, on an indictment for publinhing a libel, is not allowed to allege the truth of it by way of jultification. But in the remedy by action on the cafe, which is to repair the party in damages for the injury done him, the defendant may, as for words fpoken, juftify the truth of the facts, and fhow that the plaintiff has received no injury at all. What was faid with regard to words fpoken, will alfo hold in every particular with regard to libeis by writing or printing, and the cisil actions confequent thereupon: but as to figns or pictures, it feems neceflary always to thow, by proper inuendos and avermentsof the defendant's meaning, the import and application of the fcandal, and that fome Special damage has followed; otherwife it cannot appear, that fuch libel by picture was underftood to be levelled at the plaintiff, or that it was attended with any acionable confequences.

In a civil action, then, a libel mult appea: to be falfe, as well as fcandalous; for, if the clarge be true, the plaintiff has received no private injury, and has no ground to demand a compenfation for himfelf, whatever offence it may be againft the public peace: and therefure, upon a civil action, the truth of the accufation may be pleaded in ban of the fuit. But, in a criminal profecution, the tendency whicls all libels have to create animofitics, and to diflurb the public peace, is the fole confideration of the law. And therefore, in fuch profecutions, the only poinis to be confidered are, frit, the making or pulslidaing of the book or writing; and, fecondly, whether the matter be criminal: and, if both thele points are againd the defendant, the offence againtt the public is com ? ? : ©
complete. The punifument of fucis libellcrs, for cither making, repeating, printing, or publifhing the libel, is a fine, and fuch corporal punithment as the court in its difcretion fhall intict ; regarding the quantity of the offence, and the quality of the offender. By the lari of the twelve tables at Rome, libels, which affected the rcputation of another, were made a capital offence: but, before the reign of Augufus, the punihment became corporal only. Under the emperor Valentinian it was again made capital, not ouly to write, but to publifh, or even to omit deftroying them. Our law, in this and many other refpects, correfponds rather with the middle age of Roman jurifprudence, when liberty, learning, and humanity, were in their full vigour, than with the cruel edicts that were effablifhed in the dark and tyrannical ages of the ancient decemviri, or the latter emperors.

In this, and other inftances, where blafphemous, immoral, treafonable, fchifmatical, feditious, or fcandalous libels are punifhed by the Englifh law, fome with a greater, others with a lefs degree of feverity, the liberty of the prefs, properly underflood, is by no means infringed or violated. See Liberty of the Prefs.

LIBELLA, a piece of money amongt the Ro. mans, being the tenth part of the denarius, and equal in value to the as. It was called libella, as being a little pound, becaufe equal to a 'pound of brafs.-Its value in our money is 1 ob. 1 qu. or a halfpenny farthing. See Moxey.

Libelles, or Libellula, a genus of four-winged flies, called in Engliih dragon fies or adder-flies. See Extomology Index.

LIBELLI, was the name given to the bills which were put up amongh the Romans, giving notice of the time when a fhow of gladiators would be exlibited, with the number of combatants, and other circumftanccs. This was called munnus pronunciare or proponere. -Thefe bills were fometinus termed editfa. Thefe public notices were given by the perfon who defigned to oblige the people with the fhow, and were frequently attended with pictures reprefenting the engagement of fome celebrated gladiators. This cuftom is alluded to by Horace, lib. fi. fat. vii. 96. \&c.

There was allo the famofus libellus, a defamatory libel. Seneca calls them contunnelio $\sqrt{2}$ libelli, infamous shymes, which by a Roman ordnance were punifhable with death. Libellus alfo in the civil law fignifies the declaration, or flate of the profecutor's charge againt the defendant; and it has the like fignification in our fpiritual courts.

LIBER, in vegetables, the bark or rind, principally of trees. This is to be conceived as confilling of a number of cylindric and concentric furfaces whofe texture is reticular, and in fome trees plainly extrufible every way, by reafon that the fibres are foft and flexihe. While in this condition, they are either hollow regular canals, or, if not fo, they have intertitial fpaces which ferve the office of canals. The nutritious juice which they are continually receiving, remains in part in them, makes them grow in length and thicknefs, and ftrengthens and brings them clofer together; and by this means the toxture which was before reticular becomes an affernblage of Alraight fibes ranged vertically and parallel to each other ; that is, as they are thits al-
tered behind one another, they by degrees become a new fubitance, more woody, called blea.

LIBERA, in Mythology, the name of a goddefs, which Cicero, in his book Of the Gods, reprefents as the daughter of Jupiter and Ceres. Orid in his Fafi fays that the name was given by Bacchus to Ariadnc.

Libera is exhibited on medals as a kind of female Bacchus, crowned with vine leares.

LIBERAL ARTS, are fuch as depend more on the labour of the mind than on that of the hands; or, that confift more in Speculation than operation; and have a greater regard to amufement and curiofity than to necelfity.

The word comes from the Latin liberalis, which a. mong the Romens fignified a rcifon who was not a flave; and whofe wiil, of confequence, was not checked by the command of any mafter.

Such are granmar, rheturic, painting, fculpture, architecture, mufic, \&c. The liberal arts ufed formerly to be fummed up in the following Latin verfe:
Lingua, Trop:s, Ratio, Numerıs, Tonus, Angulus, Afra.
And the mechanical arts, which, however, are innumerable, under this:
Rus, Nemus, Arma, Faber, Vulnera, Laua, Rates.

## See Arts.

LIBERA LIA, feafts celebrated by the ancient Romans, in honour of Liber or Bacchus, the fame with thofe which the Greeks called Dionysi.i, and Diomysiaca.

They took their name from liber, i. e. free, a title conferred on Bacchus in memory of the liberty or freedom which he granted to the people of Bœotia; or, perhaps, becaule wine, whereof he was the reputed deity, delivers men from care, and fets their mind at eafe and freedom. Varro derives the name of this feaft from liber, confidered as a moun adjective, and lignifying free; becaufe the priefts were free from their function, and cafed of all care, during the time of the liberalia: as the old women ofliciated in the ceremonies and facrifices of there fealts.

LIBERIA, in Roman antiquity, a feftival obfervel on the 16th of the kalends of April, at which time the youth laid afide their juvenile habit for the toga virilis, or habit peculiar to grown men. See the article Toga.

Libertines, Libertini, in ecclefatlical hifory, a religious fect, which arofe in the year 1525 , whofe principal tenets werc, that the Deity was the fole operating caufe in the mind of man, and the immediate author of all human actions; that, confequently, the diftinctions of good and evil, which had been ellabilithed with regard to thofe actions, were falfe and groundlefs, and that men could not, properly fpeaking, commit fm ; that roligion confifted in the union of the firit or rational foul with the Supreme Being; that all thofe who had attained this happy union, by fuiblime contemplation and elevation of mind, were then allowed to indulge, without exception or reftraint, their appetites or paffions; that all their actions and purfoits were then perfectly innocent; and that, after the death of the body, they were to be united to the Deity. They likewife faid that Jefus Chrif was nothing but a mere je ue frai quoi, compoled of the fpirit of God, and of the opinion of men.
Thefe maxims occafioned their being called Liber-

## L. I B

Lilertioce fines ; and the word has been ufed in an ill fenfe ewer !!
Liberty. mee
The Liberin!! 「pread principally in Holiand and Bra-
bant. 'Their leaders were one Quintin, a Picard, Pockefu:s, Rufius, and another called Chopin, who joined with Quintin, and orcame lis difciple.

This fect obtaired a certain footing in France through the favour and protection of Margaret, queen of Navarre, and fifer to Francis I, and found patrons in Ceveral of the reformed churches. 'This feat was probably a remnant of the more anceant Beguards or Brethren of the Free Spirit.

Lebertines of Gencia, were a cabal of rakes rather than of fanatics; for they made no pretences to any religious fytem, tut pleaded cnly for the liberty of leading voluptuous and immoral lives. This cabal was compoled of a certain number of licentious citizens, who could not bear the fevere difcipline of Calvin, who fumithed with rigour not only difolute manners, but alfo whatever bore the afpect of irreligion and impiety. In this turbulent cabal there were feveral perfons who were not only notorious for their diffolute and fcandaious manner of living, but alfo for their atheiftical impiety, and contempt of all religion. 'To this odious clafs belonged one Gruct, who denied the divinity of the Chriftian religion, the immortality of the foul, the difference between moral good and evil, and rejected with difdain the doctrines that are beld molt facred among Chrittians; for which impieties he was at latt brought before the civil tribunal, in the year 1550 , and condemned to death. The Genevan fpirit of reformation, improperly directed by the violence and zeal of Calvin, did at this time operate to a degree which has marked the character of this great reformer with reproach. For in 3544 , Sebaitian Caftalio, mafler of the public fchool at Geneva, who was a man of probity, and dillinguilhed by his learning and tatte, was, neverthelefs, depoled from his office and banithed the city, becau? he difapproved fome of the meafures that were purfued and fome of the opinions entertained by Calvin and his colleagues, and particulatly that of abfolute and uncouditional predeftination. Jerome Bolfce alfo, a man of genius and learning, who became a convert to the Proteftant religion and fled to Geneva for protection, was caft into prifon, and foon after fent into Eanifhment, becaufe, in 1551, he imprudently and indecently declained, in full congregation and at the clofe of public worfhip, againft the doctrine of abfolute decrees.

LIBERTUS, or Lieertixus, among the Romans, a freedman, or a perfon fet free from a legal fervitude.

Thefe ftill retained fome nark of their ancient flate: he who made a flave free having a right of patronage over the libertus: fo that if the latter failed of thowing due refpect to his patron, he was reftored to his fervitude ; and if the libertus died without children, his patron was his heir. Sce Sr.ive.

In the beginnirg of the republic, liberimus denoted the fon of a libertus or freedman; but afterwards, before the time of Cicero, and under the emperors, the terms likertus and libertinus, as Suetonius has remarked, were ufed as fynonymous.

LIBERTY, denotes a fate of freedom, in contra-
diftinction to favery or refraint; and may be confider. Liberiy. ed as einher iatural or ciai\%.
'line ablolute rights of man, confidered as a fece agent, endowed with difeernment to know gool from cvil, and with power of choofing thofe meafures which appear to him to be molt defirable, are ufually fummed up in one general appellation, and denominated the natural liberty of mankind. This natural liberty confilts properly in a power of acting as one thinks fit, without any reftraint or controul, unlefs by the law of nature; being a right inherent in us by birth, and one of the gifts of God to man at his creation. when he endued him with the faculty of free-wi!l. But every man, when be enters into fociety, gives up a part of his natural liberty, as the price of fo raluable a purchafe; and, in confideration of receiving the advantages of mutual commerce, obliges himfelf to conform to thofe laws which the community has thought proper to eftablih. And this fpecies of legal obedience and conformity is infinitely morc defireable than that wild and favage liberty which is facrificed to obtain it. For no man, that confiders a moment, would wih to retain the abfolute and uncontrouled power of doing whatever lie pleafes: the confequence of which is, that every other man would alfo lave the fame power; and then there would be no fecurity to individuals in any of the enjoyments of life.

Political, therefore, or civil liberty, which is that of a member of fociety, is no other than natural liberty, fo far reftrained by human laws (and no farther) as is neceffary and expedient for the general advantage of the public. Hence we may collect, that the law, which reftrains a man from doing mifchief to his fel-low-citizens, though it diminifhes the natural, increales the civil liberty of mankind: but every wanton and caufelefs reftraint of the will of the fubject, whether prackifed by a monarch, a nobility, or a popular affembly, is a degree of tyranny. Nav, that even laws themfelves, whether made with or without our confent, if they regulate and conitrain our conduet in matters of mere indifference, without any good end in view, are laws deftructive of liberty: whereas, if any public advantage can arife from obferving fuch precepts, the controul of our private incliations, in one or tro particular points, will conduce to preferve our gencral freedom in others of more importance, by fupporting that fate of fociety which alone can fecure our independence. Thus the ftatute of King Edward IV. which forbade the fine gentlemen of thote times (under the degree of a lord) to wear pikes upo:1 their thoes or boots of more than tiso inches in length, was a law that favoured of oppreflion; becuufe, however ridiculous the fathion then in ufe might appear, the reftraining it by pecuniary penaltics cou!d ferve no purpofe of common utility. But the flatute of King Charles II. which preferibes a thing feemingly as indifferent, viz. a drefs for the dead, who were all ordered to be buried in woollen, is a law confitent with public liberty; for it encourages the faple trade, on which in great meafure depends the univerfal good of the nation. So that laws, when prudently framed, are by no means fubverfive, but rather introdugive, of liberty; for (as Mr Locke has well obferved) where there is no law

## I. I B [ 02 ] L I B

İFerty. these i :o freedom. But then, on the other hand, that conttitution or $f_{r}$ ime of governmeat, that fothem of laws, is alone calculated to maintain civil libety, which Jeave the fuhject entire mafier of his oun conduct, except in thofe points wherein the public good requires forme direction or reftraint.

The idea and practice of this political or civil lis. berty, flaurith in their hishett vigour in thefe king. doms, where it falls little thot of perfection, and can only be loit or deltroyed by the folly or demerits of its owner; the legitlature, and of courfe the laws of Britain, being peculiarly adapted to the prefervation of this inettimable bielling eren in the meanet lubject. Very dificent from the modem conlitutions of other ftates on the continent of Europe, and from the genims of the imperial law; which in general are calculated to yet an arbitray and defpotic power, of controuling the actions of the fubject, in the prince, or in a few grandees. And this furit of liberty is fo deeply implanted in our contitution, and rooted even in our very foil, that a flave or a negro, the moment he lands in Britain, falls under the protection of the laws, and fo far becomes a freeman ; though the malles's right to lis fervice may poffibly flill continue.

The abfolute rights of cery Briton (rrhich, taken in a political and eatenfive feule, are ufually called their libertics), as they are founded on nature and reafon, fo they are coeval with our form of government; though fubje \& at times to fluctuate and change, their chablithment (excellént as it is) being llill human. At fone times we have feen them deprelied by overbearing and tyramical princes; at others, lo luxuriant as even to tend to anarchy, a worfe flate than tyranny itlelf, as any government is better than none at all. But the vigour of our free conflitution has always delivered the nation from the fe embarrafinents: and, as joon as the convulfions confequent on the dtruggle have been orer, the balance of our rights and liberties has fettled to its proper level; and their fundamental articles have been from time to time aflerted in parliament, as often as they were thought to be in danger :
Blackf. Comment. By the great charter of liberties, which wa obtained, firord in hand, from King Jobn, and, after-
parlianent, before the fatal rupture between them; Libcriy. and by tlee mary falutary lans, particularly the Gabeas curpens act. paffed under Charles 1I. 'To thefe huecceded the Lill of rights, or declaration delivered by the lords and commons to the prince and princels of 0 . range, ${ }^{3} 3^{\text {th }}$ February 1638 ; and aferwards enacterl in pariament, when they became hing and green: which declaration concludes in thafe rmarkable words; " and they do claim, demano, and infill uporn, all and frigular the premilcs, as their undoubted rights and lir berties." And the act of parliament itelf recounifes "all and fingular the rights and liberties afierted and claimed in the faid declaration to be the true, ancient, and indubitable rights of the people of this kingdom." Laftly, 'Thefe liberties were again afferted at the commencement of the profent century, in the at of foule. ment, whereby the crown was limitcd to his prelent: majeity's illultrious houfe: and fome new provifions were added, at the fame fortunate era, for better fecwring our religion, laws, and liberties; which the thatute declares to be "the birthright of the people of England," according to the ancient duetrinc of the common law.

Thus much fer the declaration: of cur nights and liberties. The rights themfelves, thus defined by thefe feveral flatutes, confift in a number of private imm. nities; which will appear, from what has been premifed, to be indeed no other, than either that reflduum of natural liberty, which is not required by the laws of fociety to be facrificed to public convenience; or elfe thole civil privileges, which fociety hath engaged to provide, in lieu of the natural liberties fo given up by individuals. Thafe therefore were formerly, either by inheritance or purchafe, the rights of all mankind; but, in mof other countries of the world, being nor more or lefs debafed and deftroyed, they at prefent may be faid to remain, in a peculiar and emphatical manner, the rights of the people of Britain. And thefe may be reduced to three principal or primary articles; the right of perfonal fecurity, the right of perfonal liberty, and the right of private property: becaule, as there is no other known method of compulfion, or of abridging man's natural free-will, but by an infringement or diminution of one or other of thefe important rights, the prefervation of thefe inviolate may jultly be faid to include the prefervation of our civil immunities in their largeft and molt extenfive fenfe. See the article Rights.

In rain, however, would thefe rights be declared, afcertained, and protected by the dead letter of the laws, if the conftitution bad provided no other mcthod to fecure their actual enjoyment. It has therefore ellablithed certain other auxiliary fubordinate rights of the fubject, which ferve principally as barviers to protest and maintain inviolate the three great and primary rights, of perfonal fecurity, perfonal liberty, and private property. 'Ihefe are,

1. The conflitution, powers, and privileges of pare liament; for which fee Parmiament.
2. The limitation of the king's prerogative, by bounds lo certain and notorious, that it is impoffible he flould exceed them without the confent of the people; as to which, fee Prarogative. The former of thefe kecps the legiflative power in due health and wigour, lo as to make it improbable that laws fould wards, with fome alterations, confirmed in parliament by King Henry 1II. his fon. Which charter contained very few new grants; but, as Sir Edward Coke obferves, was for the mofl part declaratory of the principal grounds of the fundamental laws of England. Afterwards, by the flatute called confirmatio cartarum, whereby the great charter is directed to be allowed as the cominon law; all judgements contrary to it are declared void; copies of it are ordered to be fent to all cathedral churches, and read swice a-year to the people; and fentence of exrommupication is directed to be as conllantly denounced againft all thofe that by word, deed, or counfel, aft contrary thereto, or in any degree infringe it. Next, By a multitude of fublequent corroborating ftatutes (Sir Edward Coke reckons $3^{2}$ ), from the firf Edwatd to Henry IV. Then, after a long incerval, by the petition of right; which was a parliamentary declaration of the liberties of the prople, affented to by King Charles I. in the beginning of his reign. Which was clocely folloned by the Itill more ample conceftions made by that unlappy prince to his

## 1. I B

Lilerty. be enached defrugive of general liberty: the latter is a guard upon the execuive power, by reffraining it from ating either beyond or in contradiction to the haws that are framed and eftablithed by the other.
3. A thisd fubordinate right of every Briton is that of applying to the courts of juftiee for redrefs of injurics. Since the law is, in this realm, the fupreme aroiter of every man's life, liberty, and property, courts of juflice muit at all times be open to the fubjezt, and the law be duly adminitered therein. The emphatical words of megna charta, fpoken in the perfon of the king, who in judgement of law (fays Sir Edward Coke) is ever prefent and repeating then in all his courts, are thefe: Nulli vendenus, nulli negabimus, nut differemus rectum vel juflitiam; " and therefore every fubject (continues the fame learned author), for injury done to him in bonis, in terris, vel perfona, by any other fubject, be he ecclefiafical or temporal, without ary exception, may take his remedy by the courfe of the law, and have juftice and right for the injury done to him, freely without fale, fully without any denial, and fpeedily without delay. It were endlefs to enumerate all the affrmative acts of parliament, wherein juftice is airected to be done according to the lass of the land : and what that law is, every fubject knows, or may know if he pleafes: for it depends not upoa the arbitrary will of any judge; but is permanent, fixed, and unclangeable, unleís by authority of parliament. We thall however juft mention a few negative flatutes, whereby abufes, perverfions, or delays of juftice, efpecially by the prerogative, are refrained. It is ordained by magna charto, that no frecman flatl be cutlawed, that is, put out of the protection and benefit of the laws, but according to the law of the land. By 2 Edw. II. c. 8. and II Ric. 11. c. 10. it is enacted, that no commands or letters thall be fent under the great feal, or the little feal, the fignet or privy feal, in difturbance of the law; or to diflurb or delay common right: and, though fuch commandments thould come, the judges thall not ceafe to do right: which is alfo made a part of their oath by fatute 18 Edw. IIl. flat. 4. And by I W. and M. ft. 2. c. 2. it is declared, that the pretended power of furpending or difpenfing with laws, or the execution of laws, by regal authority without confent of parliament, is illegal.

Not only the fubifantial part, or judicial decifions, of the law, but alfo the formal part, or method of proceeding, cannot be altered but Dy parliament: ©or, if once thofe outworks were demolifhed, there would be an inlet to all manner of innovation in the body of the law itfel. The king, it is true, may ercet new courts of juftice; but then they muft proceed according to the old eftablified forms of the common law. For which reafon it is declared in the flatute 16 Car . I. c. Io. upon the diffolution of the court of far-chamber, that neither his majefty, nor his prisy-council, hate any juriddiction, power, or authority, by Engliih bill, petition, articles, libel, (which were the courfe of proceeding in the far-chamber, borrowed from the civil law), or by any othcr arbitrary way whatfoever, to examine, or d:asv into queltion, determine, or difpofe of the lands or goods of any faljects of this kingdom; but that the fame ought to be tried and deter.

Vur.. XI. PaEII.
mined in the ordinary courts of juftice, and by ccorre of Liberty. !aw.
4. If there flould happen any uncommon injury, or infringenment of the rights before mentioned, which the ordinary courfe of law is too defective to reach, there llill remains a fourth fubordinate right, appertaining to every individual, namely, the right of petitioning the king, or either houle of parliament, for the redrefs of grievances. In Rulia we are told that the czar Peter eftablithed a law, that no fubject migh: petition the throne till he had firlt petitioned two different minifters of ilate. In cafe he obtained juftice from neither, he might then prefent a third petition to the prince; but upon pain of death, if found to be in the wrong. The confequence of which was, that no one dared to offer fuch third petition; and grievances feldom falling under the notice of the fovercigu, he had little opportunity to redrefs them. The refrictions, for fome there are, which are laid upon petitioning in Britain, are of a nature estremely different; and while they promote the fpirit of peace, they are no check upon that of liberty. Care only mult be taken, left, under the pretence of petitioning, the fabject be guilty of any rio: or tumult; as happened in the opening of the memorable parliament in 1640 ; and, to prevent this, it is provided by the fatute ${ }^{13}$ Car. II. It. 1. c. 5. that no petition to the king, or either houfe of parliament, for any alteration in church or flate, flall be figned by above 22 perfons, unlefs the matter thereof be approved by three jutices of the peace, or the major part of the grand jury, in the country ; and in London, by the lord roayor, aldermen, and common-council : for thall any petition be prcfented by more than 10 perions at a time. But, under thefe regulations, it is declared by the fatute I W. and M. At. 2. c. 2. that the fubject bath a right to petition ; and that all commitnents and profceations for fuch petitioning are illegal.
5. The fifth and lail auxiliary right of the fubject, that we hall at prefent mention, is that of having arms for their defence, fuitable to their condition and degree, and fuch as are alloned by law. Which is alfo declared by the fame Ratute I W. ard M1. Al. 2. c. 2. and is indeed a public al!owance, under dee refrictions, of the natural right of rcfillance and felf-prefervation, "hen the fanctions of fociety and laws are found infufficient to reftrain the siolence of oppreffion.

In the fe feveral articles confift the nighte, or, as they are frequently ter:ned, the liberties of Britores: 1iberties more generally talked of than thoroughly underfood; and yet highly neceffary to be perfectly known and confidered by every man of rank or property, left his ignorance of the points whercon they are founded bould hurry him into faction and licentioufnets on the one hand, or a pufillanimous i:idilerence and criminal fubmifion on the other. And we have feen that thefe rights confin, primarily, in the free enjoyment of perfonal fecurity, of perional liberty, and of private property. So long as thefe remain inviulate, the fubjed is per?celly frec; for cisery fpecies of compulfive tyranny and oppretion muft act in oppofition to one or other of thefe rights, hasing :io otl.er objeet unos which it can poltibly be employed.

Liherty. To preferve thefe from viola::on, it is neceflary that the conlitution of parliameats be fupported in its fun? vigour; and limits, certainly known, te fet to the royal prerogative. And, laflly, To sindicate thefe righte, when actually riolated or attached, the fubjects of Britain are entitled, in the firf place, to the regular adminittation and free courfe of juftice in the courts of law ; rext, to the right of petitioning the ling and parliamert for redrefs of grievances; and, lafly, to :he ri, ht of having and ufing arms for felf-prefervationand defence. And a!l thefe rights and liberties it is our birthright to enjoy entire; unlefs where the laws of our courtry have laid them under neceffary reftraints. Re?raints in themfelves fo gentle and moderate, as will appear upon farther inquiry, that no man of fenfe or probity rould wifl to fee them flackened. For all of us have it in our choice to do every thing that a good man would delire to do; and are reftrained from nothirg, but what would be pernicions either to ourfelves or our fellow-citizens. So that this review of our fitcation ray fully juftify the obfervation of a learned French author, who indeed generally both thought and wrote in the fpirit of genuine freedom; and who hath not fcrupled to profefs, even in the very bofon of his native country, that the Britih is the only nation in the world where political or civil liberty is the diref end of its conflitution. Recommuerding, therefore, to the fudent in cur laws a farther and more accurate fearch into this extenfive and important title, we thall clofe our remarks upon it with the expiring wilh of the famous Father Paul to his country, " Esto perpete. ! !"

## Libeket and Neceffity. See Mictaphystcs.

Liberty of the Prefs. The art of printing, foon after its introduction, was looked upon in England, as well as in orher countries, as merely a matter of flate, and fubject to the coërcion of the crown. It was therefore regulated with us by the king's proclamations, prohibitions, chatters of privilege and licenfe, and finally by the decrees of the co:rt of ftar-chamber, which limited the number of printers, and of prefies which each ihould employ, and prohibited new publications unlefs prewioufly approwed by proper licenfers. On the demolition of this odious jurifdiction in 1641, th:e long parliament of Claries 1. after their rupture with that prince, aflumed the fame powers as the fiarchamber had exercifed with refpect to the licenfing of books: and in $1643,1647,1649$, and 1652 (Scobell. i. 4 t, 134 . ii. 88,230 .) iflued their ordinances for th at purpofe, founded priacipally o:a the far-chamber decree of 1637 . In 1662 was paffed the flatute 13 and $\mathbf{1}+$ Car. II. c. 33. which, with fome few alteraticers, was copied Irom the parliamentary ordinances, This af expired in 1679; but was revived by fatute 1 Jac. 11. c. 17. and continued till 1692 . It was then continued for two years lenger by thatute 4 W . and M . c. 24 . but though frequent attempts were made by the government to sevive it in the fulfequent past of that rcian, (Com. Jeurn. i1 「eb. 1694, 26 Nov. 1695, 22 Oct. 1696,9 Feb. $1697,3^{1}$ Jann. 169 8), yet the farliament reffited it fo ftrongly, that it frimlly expired, and the prefs became properly free in 1694 , and has cortinued fo ever fince.
The libetty of the 1 refs, bowever, fo efiential to
the nature of a free ftate, confifts not in freciom from cenfare for any criminal matter that may be pablithed, but in laying no previuus rellanints upon publications. Every freeman has undoubtedly a right to lay what fentiments he pleafes before the fublic; to forbid this, is to deftroy the freedom of the prefs: but if he publimes what is improper, rifchievous, or illegal, le mult take the confequence of his own temerity *. To fub- * See Libe ject the prefs to the reftictive porser of a licenfer in the manner above mentioned, is to fubject all freedom of fentiment to the prejudices of one man, and nake him the arbitsary and infallible judge of all controverted poirts ins learning, religion, and govemment. But to punifls (as the law does at prefent) any dangerous or offenfive writings which, when publifhed, hall, on a fair and impartial trial, be adjudged of a pernicious tendency, is neceffary for the prefervation of peace and good order, of government and religion, the only folia foundations of civil liberty. Thus the will of individuals is fill left free; the abule only of that free will is the object of legal puniflment. Neilher is any reAtraint hereby laid upon freedom of thought or inquiry ; liberty of private fentiment is fill left; the difieminating or making public of bad fentimenta, defiructive of the ends of fociety, is the crime which fociety corrects. A man (fays a fine writer on this fubject) may Le allowed to keep poifons in his clcfet, but not publicly to vend them as cordials. And to this we may add, that the only plaufible argument heretofore ufed for reflraining the juft freedom of the pref, "that it was neceffary to prevent the daily abule of it," wilk entirely lofe its force, when it is fhown (by a featonable cxertion of the laws) that the prefs cannot be abufed to any bad purpofe nithout incurring a fuitable punithment : whereas it can never be ufed to any good one when under the controul of an infpecior. $S$, true will it be found, that to cenfure the licentioufnefs, is to maintain the liberty of the prefs.

Liberty, in ifythology, was a goddefs both among the Greeks and Ronans. Among the former the was involied under the title Eleutheria; and by the latier the was called Libertas, and held in fingular veneration. Temples, altars, and fatues, were erected in honow of this deity. $\Lambda$ very magnificent temple was confecrated to her en Mount Aventine, by Tiderius Gracchus, before which was a fpacious court, called atrium libersatis. 'I'he Romans alfo erected a new tenuple in konour of Liberty, when Julius Cicfar ctam blithed his empire over them, as if their liberty liad been fecured by an event whicl proved fatal to it. In a medal of Brutus, Liberty is exhibited under the fogure of a woman, holcing in one hand a cap, the fy mbol of liberty. and two poniards in the other, with the infeription idibrs alartils.

LIBETHRA, in Ancient Geography, the fountain of long, was fituated in Magnefia, a diflict of Macedonia annexed to Theffaly; diflinct from the town of Libethra, which food on Mount Olympus, where it verges torrards Maceconia: hence the mufes are called Libellirides, (Virgil). Strabo places on Helicon, not only Hippocrene, and the temple of the Mrícs, but allo the cave of the nympls Libethrides.

LIBETHRIU'S mons, in Ancien! Geggraplyy, a mountrin of Bocotia, dillant from Coronea 40 ftadia; where

Luitina where flood the flatues of the Mufes, and of the
11 nymphs furramed Libethrides: a mountain poobably
conjoined with, or at leaft very ncar to, Fielicon.

LIBITINA, in the Roman mythology, a godders which prelided over funerals. This roddefs was the fame with the Tenus infera or Epithynabia of the Grceks. She had a temple at Rome, where was lodged a certain piece of money for every perfon who died, whofe name was recorded in a regiter called Libitime rotio. This practice was eltablifhed by Servias Tullius, in order to obtain an account of the number of annual deaths in the city of Rome, and confequently the rate of increafe or decreafe of its inhabitants.

LIBITINARII, were undertakers whofe office it was to take care of funerals, prepare all things neceffary upon this folemn occafion, and furnilh every article required.-They got their livelihood by this glomy butinefs, and leept a number of fervants to perform the working part of the profelfion, fuch as the pollinciores, vefpillones, \&ic. The name İivitinarii is derived from Libitina, the goddefs of funerals, in whofe temple were fold all things relating to funerals. See Fuseral.

LIBNA, in Ancient Gcography, a facerdotal city in the tribe of Judah, a place of itrength, as appears from Sennacherib's laying fiege to it, 2 Kings six. Ifaiah xxxvii. In Jerome's time, a village, called Lobna, in the territory of Eleutheropoiis.

LIBOURNE, a town of France, in Guienne, and in Bourdelois. It is a populous trading town, and is feated on the river Dordogne. W. Long. 0. 10. N. Lat. 44. 45.

LIbRA, or Balayce, one of the mechanical powers. See Balance.

Libra, in Alfronomy, one of the 12 figns of the zodiac, and exactly oppolite to Aries; fo called becaufe when the fun is in this fign at the autumnal equinox, the days and nights are equal as if weighed in a balance.-The flars in this confellation according to Ptolemy are 17, Tycho 10, Hevelius 20, and Flamftead 51.

Libra alfo denotes the ancient Roman pound, borrotred from the Sicilians, who called it litra.

The libra was divided into 12 uncia or ounces, and the ounce into 24 fcruples.

The divifions of the libra were, the uncia, one twelfth; the fextans, one fixth; the quadrans, one fourth; the triens, one third; the quincuкx. five ounces; the fomis, fix: ; the feptunx, feven; the bes, eight ; the dodrans, nine; the dextrans, ten; the deunx, eleven; lafly, the as weighed twelve ounces or one libra.

The Roman libra was ufed in France for the propartions of their coin till the time of Charlemagne, or perhaps till that of Philip I. in 1093, their fols being fo proportioned, as that 20 of them were equal to the libra. By degrees it becane a term of account : and every thing of the value of twenty fols was called a liver.

Liers penfa, in our law book;, denotes a pound of money in weight. It was ufual in former days not oally to tell the money but to weigh it : becaufe many citics, lords, and bilhops, having their mints, coined money, and often very had too; for which reafon, though the pouid confilted of 20 fhillinge, they always weighed it.

LIBRARII, among the ancients, were a fort of copyifts who tranfcribed in beautiful or at leaft legible charactere, what had been writen by the notaz̈ii in notes and ahbreviatures.

LIBR AR Y, an edifice or apartment defined for holding a corifiderable number of books placed regularly on faelves; or the books themfelves lodged in it.

Some authors refer the origin of libarics to the Hebrews; and obferve, that the care thefe took for the prefervation of their facred books, and the racmory of what concerned the actions of their anceitors, became an example to other nations. pasticularly to the Cgyptians. Ofmanduas, king of lesypt, is faid to have taken the hint firft ; uho, according to Diodorus, had a library built in his palace, with this infription over the door, trxile latpeion. Nor were the Ptolemies, who reigned in the fame colintry, lefs curious and magnificent in books.

The Scripture alfo fpeaks of a library of the kiness of Perfia, Ezra v. 17. vi. 1, which fome imagine to have confified of the hitforians of that nation, and os memoirs of the affairs of flate; but, in effeet, it appears rather to have been a depofitory of larrs, charters, and ordinances of the kings. The Hebrew text calls it the houfe of treafures, and aficrwards the houfe of the rolls, where the trcafures were laid up. We may, with more juffice, call that a library, mentioned ${ }^{\text {d }}$ in the fecond of Efdras to have been built by Nehemiah, and in which were preferved the books of the prophets, and of David, and the letters of their kings.

The firft who erected a library at Athens was the tyrant Pififtratus; and yet Strabo refers the honour of it to Ariltotle. That of Pififtratus was tranfported by Xerxes into Perfia, and was afterwards brought back by Seleucus Nicanor to Athens. Loang after, it was plundered by Sylla, and re-eftablilihed by Hadrian. Plutarch fays, that under Eumenes there was a library at Pergamus, containing 202,000 books. 'Tyrannian, a celebrated grammarian, contemporary with Pompey, had a library of 30,000 volumes. That of Ptolemy Philadelphus, according to A. Gellius, contained 700,000, all in rolls, burnt by Cefar's foldiers.

Conftantine, and his fucceffors, erected a magnificent one at Confantinople; which in the eighth century contained 300,000 volumes, all burut by order of Leo Ifaurus; and, among the reft, one wherein the lliad and Odyfiey were written in letters of gold, on the guts of a ferpent.

The moft celebrated libraries of ancient Rorne, were the Ulpian, and the Palatine. They alfo boaft nuch of the libraries of Paulus FEmilius, whoconquered Perfeus; of Lacilius Lucullus, of Afinius Pollio, Atticus, Julius Severus, Domitius Serenus, Pamphilius Martyr, and the emperors Gordian and Trajon.

Anciently, every large church had its library; as appears by the writings of St Jerome, Anaflafius, and others. Pope Nicholas laid the firt foundation of that of the Vatican, in 1450 . It was dellroyed by the confable Bourbon, in the facking of Rome, and reflored by Pope Sixtus V. and has heen confiderably enriched with the ruins of that of Heidelberg, plundiered by Court Tilly in 1622. One of the moff complete liluraries in Europe, was faid to be that crected at Florence by Cofino de Medicis, over the gate whereof is writen Imeor absque habory ; though it is now

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Library. e:nceeded by that of the French king, begun by Francis I. aurmented by Cardinal Richelieu, and completed by $\lambda$. Culbert.

The emperor's library at Tiema, according to Lambecius, confits of 80,002 volumes, and 15,940 curious medal.

The Boaleian library at Oxford, built on the foundation of that of Dake Humphry, exceeds that of any univerfity in Europe, and even thofe of all the fovereigns of Europe, except the emperor's and French king's, which are each of them older by 100 years. It was frrt opened in 1602, and has fince found a great number of benefactors; particularly Sir Robert Cotton, Sir II. Sovil, Archbilhop Laud, Sir Kenelm Digby, Mr Allen, Dr Pococke, Mr Selden, and others. The Vatican, the Medicean, that of Bellarion at Vewice, and thofe juft neentioned, exceed the Bodleian in Greek manufripts: whicin yel outdoes them all in Oriental nanufcripts.

As io printed books, the Ambrelian at Milan, and that of Wolfenbuttle, are two of the noft famous, and yet both inferior to the Bodleian.

Kirg's Libr.irt, at St James's, was founded by Henry, eldeft fon of James I. and made up partly of books, and partly of manufcripts, with many other curiofities, for thie advancement of learring. It has received many additions from the libraries of Ifaac Cafacbon and others.

Cottonian LIBRARr, originally confifted of 958 volumes of original chaters, grants, inftruments, letters of fovereiga frinces, tranfacions between this and other kingdoms and ftates, genealogies, hiftories, regifters of monalleries, remains of Saxon laws, the book of Genefis, thought to be the moll ancient Greck copy extant, and faid to have been written by Origen in the fecond century, and the curious Alexandrian copy or manufcript in Greek capitals. This library is kept in the Britill Mufeum, with the large and valuable library of Sir Hans Sloane, amounting to upwards of 42,000 volumes, \&c. There are many public libraries belonging to the feveral colleges at Oxfurd and Cambridge, and the univerfities in North Britain. The principal public libraries in London, befide that of the Mufeum, are thofe of the College of Heralds, of the Cullege of Phyficians, of Doctors Commons, to which every bitiop, at the time of his confecration, gives at leaft 201. fometimes 501. for the purchafe of books; thofe of Gray's Imm, Lincoln's Inn, Inner Temple, and Middle Temple; that of Lambeth, founded by Archbiihop Bancroft in 1610 , for the ufe of fucceeding arclibithops of Canterbury, and increafed by the benefactions of Archbifhops Abbot, Sheldon, and Tennifon, and faid to confift of at leaft 15,000 printed books, and 617 volumes in manuleript; that of Red-Crofs fircet, founded by Dr Daniel Williams, a Prelhyterian divine, and fince enriched by many private benefactions; that of the Royal Society, called the Arundelian or Norfolk library, becaufe the principal part of the collection formerly belonged to the family of Arundel, and was given to the fociety by Henry Howard, afterwards duke of Norfolk, in 5666 , which library has been increafed by the valuable collection of Francis Afton, Eff. in 1715 , and is continually increafing by the innmerous benefactions of the works of its learned mem.
bers, and others: that of St Paul's, of Sion college;
the Oueen's library, the Queen's library, erected by Queen Caroline is 1737; and the Surgeons library, kept in their hals in the Old Bailey, \&xc.

In Edinourgh there is a goo! library belonging to the univetity, well furnimed with books; which are kept in good order. There is allo a noble library of books and monufcripts belonging to the faculiy of advocates. See Advocate. The library belonginer to the fociety of writers to the fignet, although of lefs extent, yet in the judicious felection of the beit books, and the beft editions, which by the attention of the fociety are now kept in excellent order, is inferior to none in the kingdom.

LIBR A'TlON, in Afronomy, an apparent irregularity of the moon's motion, whereby the feems to librate about her axis, fometimes from the ealt to the wefl, and now and then from the weit to the ealt. See Astronomy Index.

LIBURNIA, in Ancient Gcograply, a diftrict of IIlyricum, extending towards the Adriatic between Ittria on the weft, Dalmatia on the eaft, and Mount Albius on the north. Liburni, the people. The apparitors, who at the command of the magiftrate fummoned the pcople from the country, were called $L i b a r n i$, becaufe generally men of Liburnia.-Liburna, or Liburnica, (Horace), denoted a kind of lighe and fwift kif, ufed by the Liburnians in their fea-roving or piracies, for which they were noted. Liburnum (Juvenal), was a Species of litter made in form of Liburnian fkifs, wherein the noblemen of Rome were carried, and where they fat at their eafe, either reading or writing.

LIBURNUS, in Ancient Geography, a mountain of Campania. Alfo a port of Iufcany. Now Livorna, or Leghorn. E. Long. 1 I. N. Lat. $43 \cdot 30$.

LIBYA, in general, according the Greeks, denoted Africa. An appellation derived from lub, "thirft," being a dry and thirfty country. See Africa,

Libya, in a more reftrained fenfe, was the middle part of Africa, extending north and weft, (Pliny); between the Mediterranean to the north, and Ethiopia to the eaft: and was twofold, the Hither or Exterior. Libya; and the Farther or Interior. The former lay between the Mediterranean on the north, and the Farther Libya and Ethiopia beyond Egypt on the fouth, (Ptolemy). The Farther or Interior Libya was a vaft country, lying between the Hither Libya on the north, the Atlantic ocean on the wef, the Ethiopic on the fouth, and Ethiopia beyend Egypt on the ealt, (Ptolemy).

Libya, in a till more reftrained fenfe, called, for diftinction's fake, Libya Propriu, was a northern diftrict of Africa, and a part of the Hither Libya; fituated between Egypt to the eaft, the Medierranean to the north, the Syrtis Major and the Regio Tripolitana to the weft, the Garamantes and Ethiopia beyond Egypt to the fouth. Now the kingdom and defert of Barca. This Libya was again fubdivided into Lilya taken in the fricteft fenfe of all, and into Marmarica and Cyrenaica. Libya in the ftricteft fenfe, otherwife the Exterior, was the moft eaftern part of Libya Propria, next to Egypt, with Marmarica on the weft, the Mediterranean on the north, and the Nubi, now called Nubia, to the fouth, (Ptolemy).

LICENSE.

LICENSE, in Law, an authority given ta a perfon to do fonne lawful act.

LIC CNSER of Boors, has been an officer in almoft every civilized couritry, till the clofe of the lat century, when it was abolihed in Great Britain. It has been proved by Beckmann, that fach an ofice was eftablithed, not only in the Koman empire, but alfo in the republic and the dlates of Greece. A!l the copies of the warks of Protagoras which could be procured, were burnt at $A$ thens by the public crier, and the fatirical works of Labienus thared the came fate under the reign of the emperor Auguras. Not long after the insention of printing, laws were enacted for fibjecting books to examination; a regulation which was propofed even by Plato, and which many have fince wined for. It anpears that the liberty of the prefs is only a modern privilege, and that it has not been enjoyed in its utmoit latitude in any country but Great isritain.

Licenser of the Prefs. See Liberat of the Prefs.
LICENTIAIE, one who has obiained the degree of a licenfe. - Tike greateit number of the officers of juftice in Spain are diftinguifhed by no other title than that of licentiate. In order to pafs licentiate in common law, civil law, and phyfic, they muft have fudied feven years, and in divinity ten. Among us a licentinte ufually means a phyfician who has a licenfe to practile, granted by the college of phyficians.

LICETUS, a celebraied jhyfician of Italy, was born at Rappollo, in the fate of Genoa, 1577. He came, it feems, into the world, before his mother had completed the feventh month of her jregnancy ; but his father, being an ingenious phyfician, wrapped him up in cotton, and nurtured him fo, that he lived to be 77 years of age. He was trained with great care, and became a very difinguifhed man in his profeffion; and was the author of a great number of works: his book De Monflris every body muft have heard of. He was profeffor of philofophy and phyfic at Padua, where he died in 1655.

LICHEN, LIVERWORT, a genus of plants belonging to the natural order of algæ, in the cryptogamia clafs. See Botany Index.

## LiCHFIELD. See Litchfietd.

LICHTENBERG, a caftle of France, in Lower Alface, and the chief place of a county of the fame name; feated on a rock, near the mountains Vofges, and looked upon as impregnable. E. Long. 7. 35 . N. Lat. 48. 55.

LICHTENBURG, a town of Germany, in the circle of Franconia, and margravate of Cullembach. E. Long. 1 2. O. N. Lat. 50. 26.

LICHTENFELS, a town of Germany, in the circle of Franconia, and bihopric of Bamberg, feated on the river Mayne, in E. Long. II. Io. N. Lat. 50. 20.

LICHTENSTEIN, a town of Swiferland, in Tockerberg, feated on the river Thour. E. Long. 2. 1 5. N. I.at. 47. 25.

LICHTSTALI, a handfome town of Swifferland, in the county of Bafil; feated on the river Ergetz, in E. Long. 7. 57. N. Lat. 47. 40.

LICINIUS Srolo, a famoas Roman tribune, ftyled Solo on account of a law he made, while tribune, that no Roman citizen fhould poffefs more than 500 acres of land; alleging, that when they occupied more,
they could not cultivate it with care, nor puil up the ufelefs thoots (fiolones) that grov from the rocis of tree: He is memorable alfo for enacting, that one of the confuls hould alindys be of a plebeian family. He live 1 about 362 B . C.

LICNON, in the Dionyfian folemnities, the myfical van of Bacchus; a thing fo effential to all the folemnities of this god, that they could not be duly celebrated without it. See Dionysia.

LICNOPHOR1, in the Dionyfian folemnities, thofe who carricd the licnon.

LICOLA, or Lago di Licola, a lake in the kingdom of Naples, formerly fameus for plenty of excellent filh; but in the year 1538 an explofion of a volcano changed one part of it into a mountain of afles, and the other into a morafs. It was anciently known by the name of the Lucrine lake.

LICONIA, a genus of plants belongiing to the pentandria clafs. See Botany Index.

LICTORS, among the Romans, were officers eftablifhed by Romulus, who always attended the chief magiftrates when they appeared in public.

The duty of their office confilted in the three folloxing particulars: I. Submorio, or clearing the way for the magiitrate they attended : this they did by word of month; or, if there was occafion, by ufing the rods they always carried along with them. 2. Animaderyio, or caufing the people to pay the ufual refpect to the magiltrate, as to alight, if on horleback, or in a chariot; to rife up, uncover, make way, and the like. 3. Prceitio, or walking before the magittrates: this they did not confufedly, or alcogether, nor by two or three abreatl, but fingly, following one another in a Itraight line. They alfo preceded the triumphal car in public triumphs; and it was alfo part of their office to arrel criminals, and to be public executioners in beheading, \&tc. Their enfigns were the fasces and securis.

As to the number of lictors allo:ved each magistrate, a dictator had tirenty-four, a mafer of the horle fix, a conful twelve, a pretor fix; and each veltal virgin, whon fthe appeared abroad, had one.

## LIDD. See Lydd.

-LIDDEL, Dr Duscine, profefior of mathematics and of medicine in the univerfity of Helmitadt, was born in the year 1561 at Aberdeen, where he received the firlt part of his education in languases and philofophy. About the age of eighteen he renaired to the univerfity of Francfort, where he fpent three years in a diligent application to mathematics and philofophy. From Francfort he proceeded to Wratiflaw, or Breflaw, in Silefia, where he is faid to have made uncommon progrees in his favourite fludy of mathematics, under the direction of a very eminent profefor, Paulus Wittichius. Having ftudied at Breflaw fur the face of one year, he returned to Prancfort and remained there three years, paying the moft intenfe application to the ftudy of pinylic. A contagious dillemper having broken out at that place, the ftudents were difperfed, and Liddel retired to the unirerfity of Rolock. Here he renewed his lludies, rather as a companion than as a pupil of the celebrate! Brucieus, who, though an excellent mathematician, did not foruple to confefs that he was inflrueted by Lidjel in the more perfect knowlelge of the Copernican lyftem, and other aftronomical queftions. In 1590 he returned once more to Francfort. But having there beard of the in-

## L I D [ 798$] \quad$ L I E

Licilel. Jidtorci.
cicaling reputation of the Academia Julia, citablifthed at Heimifadt by Henry duke of Brunfwick, Mr Liddel removed thither; and foon after his arrival was appointed to the firft or lower profellorthip of mathematics. From thence he was promoted to the fecond and more dignified mathematical chair, which he occupied for nine years, with much credit to himfelf and to the Julian Academy. In I 596 he obtained the degrec of M. D. was admitted a member of that faculty, and began publicly to teach phyfic. By his teaching and his writings he was the chief fupport of the medical fchool at Helmlladi; was employed as firtt plyyfician at the court of Brunfwick, and had much practice anong the principal inhabitants of that country. • Having been feveral times elefed dean of the faculties both of philofophy and phyfic, he had in the year 1604 the honour of being chofen prorector of the univerfity. But neither academical honours, nor the profits of an extenive practice abroad, could make Dr Liddel forget his native country. In the year 1600 he took a final leave of the Academia Julia; and after travelling for fome time through Germany and Italy, he at length fettled in Scotland. He died in the year 1613 , in the 52 dyear of his age. By his laft will he beftowed certain lands purchafed by him near Aberdeen upon the uxiverfity there, in all time coming, for the education and fupport of fix poor fcho. lars. Among a variety of regulations and injunctions for the management of this charity, he appoints the magiftrates of Aberdeen his truftes, and folemnly denounces the curfe of God on any perfon who thall abufe or mifapply jt. His works are, 1. Diphutationes Medicinales, Helmfladt, 1603.410 .2 . Ars Medica Juccinclè r! porfpicue explicata, Mamburghi, 16e7, 8vo. This per. iormance is dedicated to King James VI. and is divided into five books, viz. Introductio in totam Medicinam; De Phyfologia; De Pathologia; De Signorum doctrina; De Therapeutica. 3. De Febribus Libri tres, Hamburghi, 1610 , 12 mo . 4. Tracłatus de dente aureo, Hamburghi, $628,12 \mathrm{mo}$. This laft performance Dr Iiddel publifhed in order to refute a ridiculous ftory then current, of a poor boy in Silefia, who, at feven years of age, having loft fome of his teeth, brought forth, to the aftonifhment of his parents, a new tooth of pure gold. Jacobus Horftius, doctor and profeflor of medicine in the Academia Fulia, at the fame time with our author, had publifhed a book, which he dedicated to the emperor Rudolphus II. to prove that this wonderful tooth was a prodigy fent from heaven to encourage the Germans then at war with the Turks, and foretelling, from this golden tooth, the future victories of the Chriftians, with the final deftruction of the Turkilh empire and Mahometan faith, and a return of the golden age in 1700 , preparatory to the end of the world. The impollure was foon after difcovered to be a thin plate of gold, frilfully drawn over the natural tooth by an a:tift of that ccuntry, with a view to cxcite the public admiration and charity. 5. Artis conCervandi Sanitatem, libri duo, Abcríanice, 1651, 12 mo ; a poftrumons work.

LIDFORD, a village of Devonfhire in Eng?and, fituated on the river Lid, two or threc miles eaft of Brent Tor, was formerly a famous town, with a cafle. It was much deftroyed by the Danes in 997 . The village is now fmali, but the lands in the parith are sich and ferile, the whole foref of Dartmore being in the
verge of it. The river here being pent up at the bridge Lidoping with rocks, has made itfelf fo deep a fall, that the noife of the water only is heard without being feen.

LIDKOPING, a town of Weft Gothland in Sweden, fated on the lake Wenar, in E. Long. 13.40. N. Lat. 58.25.

LIDNEY, a town of Glouceftermire in England, 71 miles from London, is feated on the weft bank of the river Severn. In the neighbourhood are the remains of a large Roman encampment, with foundations of many ancient buildings, among which are the ruias of a Roman hypocauft of an oval form; and Roman aptiquities and coins are often found. Mr Bathurt bas a fine feat here called Sydney-Park, in the midft of extenfive woods.
L.IE, in morals, denotes a criminal breach of veracity. Archdeacon Paley, in treating of this fubjeet, obferves, that there are falfehoods which are not lies; that is, which are not criminal : and there are lies which are not literally and directly falfe.
I. Cafes of the firf clafs are thofe, I. Where no one is deceived : as, for inftance in parables, fables, novels, jefts, tales to create mirth, or ludicrous embellihmients of a flory, in which the declared defign of the fpeaker is not to inform, but to divert; compliments in the fubfcription of a letter; a prifoner's pleading not guilty; an advocate afferting the juftice, or his oelief of the jultice, of his client's caule. In fuch inflance no confidence is deftroged, becaufe none was repofed; no promife to fpeak the truth is violated, becaufe none was given or underfood to be given. 2. Where the perfon you fpeak to has no right to know the truth, or more properly where little or no inconveniency refults from the want of confidence in fuch cafes; as where you tell a falfehood to a madman for his oxn advantage; to a robber, to conceal your property; to an affafin, to defeat or to divert him from his purpofe. It is upon this principle, that, by the laws of war, it is allowed to deccive an enemy by feints, falfe colours, fpies, falfe intelligence, and the like; but, by no means, in treaties, truces, fignals of capitulation, or furrender: and the difference is, that the former fuppofe hoftilities to continue, the latter are calculated to terminate or fufpend them.

Many people indulge in ferious difcourfe a habit of fiction and exaggeration, in the accounts they give of themfelves, of their acquaintance, or of the extiaordinary things which they have feen or heard; and fo long as the facts they relate are indifferent, and their narratives though falfe are inoffenfive, it may feem a fuperfitious regard to truth to cenfure them merely for truth's fake. Yet the practice ought to be checked: for, in the frift place, it is almoft impoffible to pronounce beforehand, with certainty, concerning any lie, that it is inoffenfive; or to fay what ili confequences may refult from a lie apparently inoflenfive: And, in the next place, the habit, when once formed, is eafily evtended to ferve the defigns of malice or interelt ; like all habits, it fpreads indeed of itfelf. Pious frauds, as they are improperly enough called, pretended infpirations, forged books, counterfeit miracles, are impofitions of a more ferious nature. It is polible that they may fometimes, though feldom, have been fet up and encouraned with a defign to do good : but the good they aim at requires that the belief of them

## L I E

Liechean, thould be perpetual, w':ich is hardly polibie ; and the Liege. detecion of the fraud is fure to difuarage the credit of all pretentions of the fame nature. Chritianity has fuffered more injury from this caule than from all other caufes put togethre:.
II. As there may be falfehools which are not lies, fo there may be lies without literal or direct falfehood. An opcning is always left for this fpecies of prevarication, when the literal and grammatical fignification of a fentence is different from the popular and cuftomary meaning. It is the wilful deceit that makes the lie; and we wilfully deceive, when our exprethions are not true, in the fenfe in which we believe the hearer apprehends them. Befides, it is abfurd to contend for any fenfe of words, in oppotition to wlage; for all fenies of all words are founded upon ufage, and upon nothing elfe. Or a man may att a lie; as by pointing his finger in a wrong direction, when a traveller inquires of him his road; or when a tradefman thuts up his windows. to induce his creditors to believe that he is abroad : for to all morel purpofes, and therefure as to veracity, fieech and action are the fame; fpeech being only a mode of action.

LIECHIENAU, a torm of Germany, in the circle of Franconia and margravate of Anfpach, fubject to Nuremberg. E. Long. 9.5. N. Lat. 48.43.

LIEGE (Ligiur), in Law, properly fignifies a valfal, who holds a kind of fee, that binds him in a clofer obligation to his lord than other people.

The term feems to be derived from the French lier, "t to bind ;" on account of a ceremony ufed in rendering faith or homage : which was by locking the vaflal's thumb or his hand in that of the lord, to flow that he was fait bound by his oath of fideliter. Cujas, Yigenere, and Eigron, choofe rather to derive the word from the fame fource with lcudis or leodi, " loyal, faithful." But Du Cange falls in with the opinion of tho? who derive it from liti, a kind of valials, io firmly attached to their lord, on account of lands or
fees helil of him, that they were obliged to do him a!l mmmer of fervice, as if they were his domettics. He
adds, this was formerly called lizs ium fervilum, and the manmer of fervice, as if they were his domettics. He
adds, this was formerly called lizg ium fervilium, and the perfon litge. In this fenfe, the word is uled, Le:g. Edw. cap. 29. Jodrci fub tatcla regis ligia deluent elfe; that is, wholly under his protection.

By liege homage, the valfal was obliged to ferve his lord towards all, and againlt all, excepting his father. lord towards all, and againtt all, excepting his father.
In which fenfe, the word was ufed i 1 oppofition to fimple homage; which laft unly obliged the vaffal to pay the rights and accultomed dues to his lord; and not to bear arms againt the emperor, prince, or othe: fupebear arms againt the emperor, prince, or othe: fupe-
rior lord: Io that a liege man was a perfon wholly devoted to his lord, and entirely under his command. Omnibus, bor. Reginaldus, rex Infularum, falutem:. Sciatis quod deveni homo ligeus domint regis Ahyghe yohannis, contra omnes mortales, quamdiu vivera; et inde
ei fidelitatem et facramentum: prafti:i, boc. MS. penes ei fidelitatem et facramentum: prafitit, woc. MS. penes W. Dugdale.

But it mutt be obferved, there were formerly two kinds of licge bomage: the one, by which the vaffal
was obliged to ferve his lord, againf all, without exkinds of licge bomage: the one, by which the vaffal
was obliged to ferve his lord, againf all, without exception even of his fovereign; the other, by which he was to ferve him againll all, except fuch other lords as he had formerly owed liege homage to.

In our old ftatutes lieges, and liege people, are
terms peculiarly appropriated to the king's lubjects; as being liges, ligi, or ligati, obliged to pay allegiance to bim; 8 Henry VI. 14 Hen. VIII. \&ac. though private perfons had their lieges too. Reinaldus, Dei gratia, abbas Ramefice, prappgito et hominibus de Braneeflre, al omnibus vieinis Francis at Anglis falutem. Sciatis me dedife terram Ulfe, in depedene (hodie depedale) huic
Bofctino, et uxori ejus Alfnice-ea conditione quod effecti dedife terram Ulfe, in depedene (hodie depedale) huic
Bofctino, et uxori ejus Alfnice - ea conditione quod effecti fint liomines legis. Lib. Ramef.
LIEGE-Pouffic, in Scots Law, is oppofed to death-
bed; and fignifies a perfon's enjoying that flate of
LIEGE-Poufic, in Scots Law, is oppofed to death-
bed; and fignifies a perfon's enjoying that fate of health in winich only he can difpole of his property at pleafure. ei fidelitata el facranan. prafin, be. No. penes ther oned formo

## DIREC'IONS ror placing the PLATES of Vol. XI.

## Part I.

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[^9]:    (A) Father Simon, Voltaire, L'Abbé Condillac, Dr Smith, and the author of the Orivin and Progre/s of . Langzage.

[^10]:    Nor Eve to iterate
    Her urmer trefnals fear'd.
    Henger and thirit at once,
    Povertas, ,erfutters, quicken'l at the fcent
    Of that alluriag fruit, u-s'd me fo keen. -
    WI, w that now mee:' the rien: fut, now fli'it
    Wit the fix'd llars, fix'd $n$ tuei: or's that Hics,
    And ye five other wand'sing fires dhat move

[^11]:    feffon of parliament taken together made properly but one flatute: and therefore, when two feffions have been held in one year, we ufually mention fat. 1. or 2. Thus the bill of rights is cited, as i W. \& M. ff. a. c. 2. fignifying that it is the fecond chapter or act of the fecond fatute, o- the laws made in the fecond feffions of parliament held in the firll year of King William and Qucen Mary.

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